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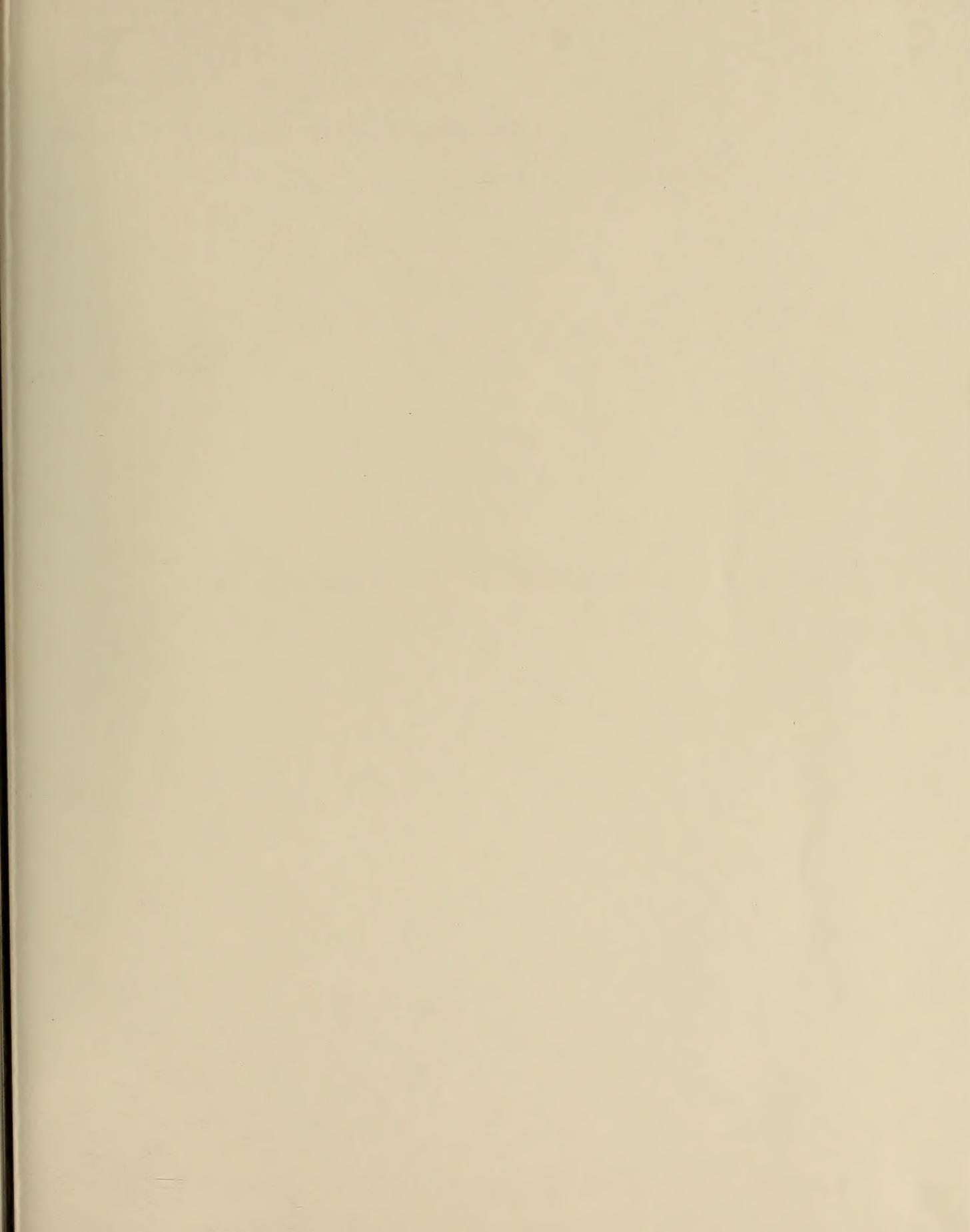
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Analyses of Natural Gases, 1976



UNITED STATES DEPARTMENT OF THE INTERIOR

Information Circular 8749

Analyses of Natural Gases, 1976

By B. J. Moore



UNITED STATES DEPARTMENT OF THE INTERIOR
Cecil D. Andrus, Secretary

21-5 BUREAU OF MINES.

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As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering the wisest use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to assure that their development is in the best interests of all our people. The Department also has a major responsibility for American Indian reservation communities and for people who live in Island Territories under U.S. administration.

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ANALYSES OF NATURAL GASES, 1976

by

B. J. Moore ¹

INTRODUCTION

This publication contains analyses and related source data for 252 natural gas samples from wells and pipelines in 17 States. All of the samples were obtained and analyzed during calendar year 1976 as a part of Bureau of Mines investigations of the occurrences of helium in natural gases of countries with free market economies. This survey has been conducted in the United States by the Bureau of Mines since 1917. In late 1965, the survey was expanded to include foreign gasfields. The analyses published herein were made by mass spectrometer and a special helium analysis apparatus, which are described in Bureau of Mines Bulletins 486² and 576.³

The results of the investigation of the occurrences of helium are published annually to make the information available as soon as possible to the gas industry and the public in general. Eighteen previous publications have presented the results of 11,065 gas analyses prior to 1976. The first 3, Bulletins 486,⁴ 576,⁵ and 617,⁶ contain analyses and related source data on 5,218 gas samples collected from 1917 through 1960. The other 15

¹Chief, Section of Helium Resources Evaluation, Branch of Helium Resources, Helium Operations, Bureau of Mines, Amarillo, Tex.

²Anderson, C. C., and H. H. Hinson. Helium-Bearing Natural Gases of the United States. Analyses and Analytical Methods. BuMines Bull. 486, 1951, 141 pp.

³Boone, W. J., Jr. Helium-Bearing Natural Gases of the United States. Analyses and Analytical Methods. Supplement to Bulletin 486. BuMines Bull. 576, 1958, 117 pp.

⁴Work cited in footnote 2.

⁵Work cited in footnote 3.

⁶Munnerlyn, R. D., and R. D. Miller. Helium-Bearing Natural Gases of the United States: Analyses. Second Supplement to Bulletin 486. BuMines Bull. 617, 1963, 93 pp.

publications,⁷ which were issued as information circulars, supplement the 3 bulletins and contain 5,847 analyses of samples collected since 1960. This publication is the 16th publication supplementing the 3 bulletins.

In 1976, a compilation of the analyses made prior to 1975 was published by the National Technical Information Service of the U.S. Department of Commerce. This compilation, entitled "Analyses of Natural Gases, 1917-74," contains 10,562 analyses of gas samples from oil and gas wells and natural gas pipelines in 37 States and 23 foreign countries. The compilation is available from the National Technical Information Service, Springfield, Va. 22161. Catalog number of the publication is PB 251-202 and the price is \$21.25.

In addition to being included in the publications, all published analyses and related information are available on a magnetic tape file. The tape is also available from the National Technical Information Service, and orders should refer to Bureau of Mines Tape PB 255-487, \$100.

ACKNOWLEDGMENTS

The helium survey program is conducted by soliciting natural gas samples throughout the United States and other countries with free market economies. Without the assistance of the oil and gas industry, State and national agencies, and many individuals engaged in oil and gas exploration and production, the helium survey with its present scope would be impossible.

The analyses listed in the tables were made by the Section of Technical Services, Helium Operations, Bureau of Mines, Amarilla, Tex. The list of analyses was produced through use of a computer by the Section of Automatic Data Processing, Helium Operations, Bureau of Mines, Amarillo, Tex.

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- ⁷Miller, R. D., and G. P. Norell. Analyses of Natural Gases of the United States, 1961. BuMines IC 8221, 1964, 148 pp.
- _____. Analyses of Natural Gases of the United States, 1962. BuMines IC 8239, 1964, 120 pp.
- _____. Analyses of Natural Gases of the United States, 1963. BuMines IC 8241, 1965, 102 pp.
- Moore, B. J., R. D. Miller, and R. D. Shrewsbury. Analyses of Natural Gases of the United States, 1964. BuMines IC 8302, 1966, 144 pp.
- Moore, B. J., and R. D. Shrewsbury. Analyses of Natural Gases of the United States, 1965. BuMines IC 8316, 1966, 181 pp.
- _____. Analyses of Natural Gases, 1966. BuMines IC 8356, 1967, 130 pp.
- _____. Analyses of Natural Gases, 1967. BuMines IC 8395, 1968, 187 pp.
- Cardwell, L. E., and L. F. Benton. Analyses of Natural Gases, 1968. BuMines IC 8443, 1969, 169 pp.
- _____. Analyses of Natural Gases, 1969. BuMines IC 8475, 1970, 134 pp.
- _____. Analyses of Natural Gases, 1970. BuMines IC 8518, 1971, 130 pp.
- _____. Analyses of Natural Gases, 1971. BuMines IC 8554, 1972, 163 pp.
- _____. Analyses of Natural Gases, 1972. BuMines IC 8607, 1973, 104 pp.
- Moore, B. J. Analyses of Natural Gases, 1973. BuMines IC 8658, 1974, 96 pp.
- _____. Analyses of Natural Gases, 1974. BuMines IC 8684, 1975, 122 pp.
- _____. Analyses of Natural Gases, 1975. BuMines IC 8717, 1976, 82 pp.

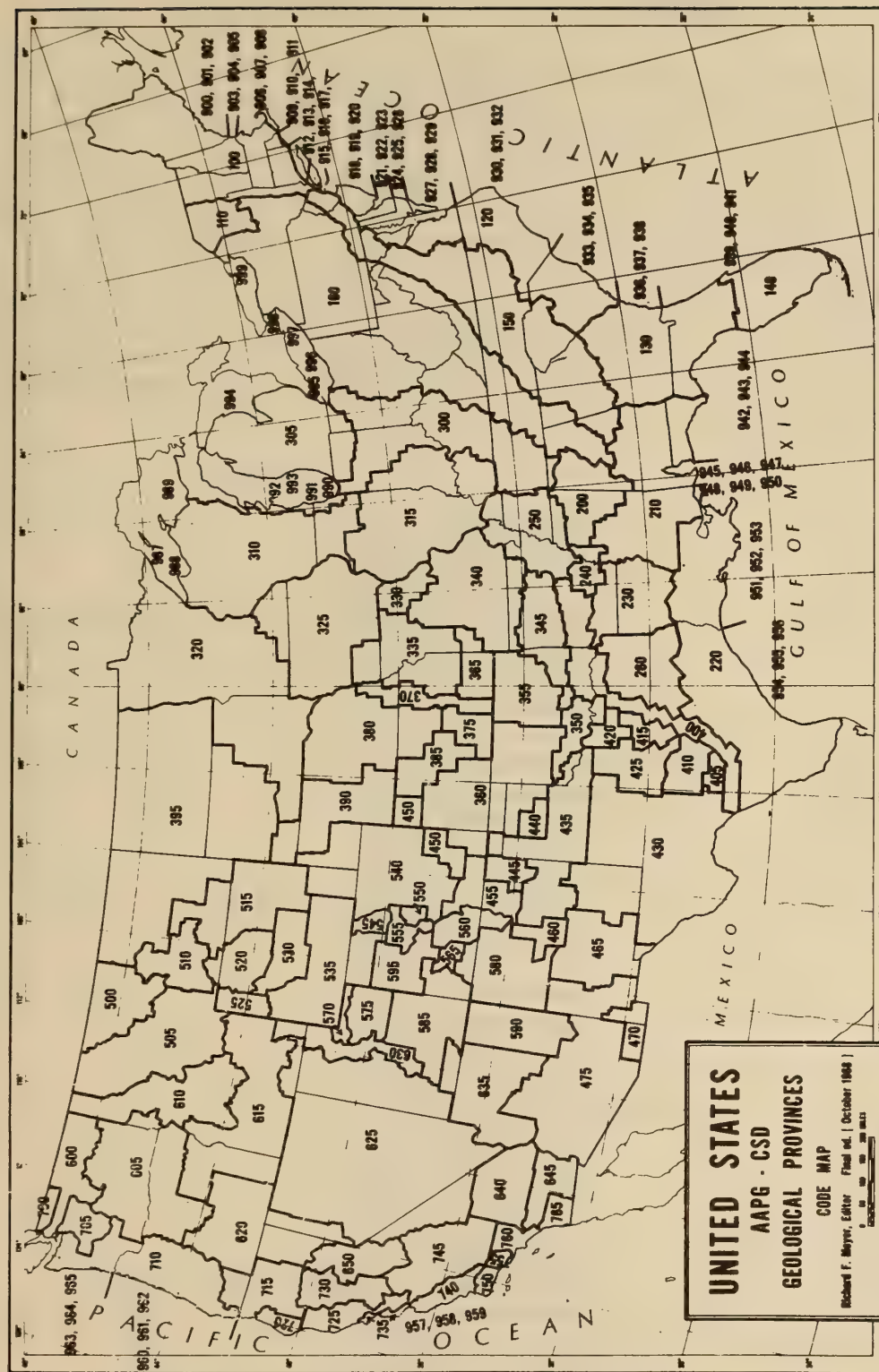


FIGURE 1. - Geologic provinces of the United States.

GEOLOGIC PROVINCES OF THE UNITED STATES

A new feature has been added to the well sample data this year. This is the inclusion in the tables of a geologic province code so that each sample source can be located within a specific geologic province as defined by the Committee on Statistics of Drilling of the American Association of Petroleum Geologists.⁸ These provinces, which are given in the following list and shown in figure 1, are delineated by political boundaries for convenience and for accommodation of data-processing equipment. The accompanying list and figure 1 are taken from the article cited in footnote 8. Not all of the provinces shown are gas-producing areas, so many of the codes are not used in this publication. In offshore areas, only one code is used for each State, since State or Federal ownership is not always known. Only one code, 972, will be used for all wells in Alaska, both onshore and offshore, because of the lack of information on the location of wells in that State.

<u>Code</u>	<u>Province</u>
100	New England province
110	Adirondack uplift
120	Atlantic Coast basin
130	South Georgia-North Florida sedimentary province
140	South Florida province
150	Piedmont-Blue Ridge province
160	Appalachian basin
200	Warrior basin
210	Mid-Gulf Coast basin
220	Gulf Coast basin
230	Arkla basin
240	Desha basin
250	Upper Mississippi embayment
260	East Texas basin
300	Cincinnati arch
305	Michigan basin
310	Wisconsin arch
315	Illinois basin
320	Sioux uplift
325	Iowa shelf
330	Lincoln anticline
335	Forest City basin
340	Ozark uplift
345	Arkoma basin
350	South Oklahoma folded belt province
355	Chautauqua platform
360	Anadarko basin
365	Cherokee basin

⁸Meyer, R. F. Geologic Provinces Code Map for Computer Use. AAPG Bull., v. 54/7, July 1970, pp. 1301-1305.

<u>Code</u>	<u>Province</u>
370	Nemaha anticline
375	Sedgwick basin
380	Salina basin
385	Central Kansas uplift
390	Chadron arch
395	Williston basin
400	Ouachita tectonic belt province
405	Kerr basin
410	Llano uplift
415	Strawn basin
420	Fort Worth syncline
425	Bend arch
430	Permian basin
435	Palo Duro basin
440	Amarillo arch
445	Sierra Grande uplift
450	Las Animas arch
455	Las Vegas-Raton basin
460	Estancia basin
465	Orogrande basin
470	Pedregosa basin
475	Basin-and-Range province
500	Sweetgrass arch
505	Montana folded belt province
510	Central Montana uplift
515	Powder River basin
520	Big Horn basin
525	Yellowstone province
530	Wind River basin
535	Green River basin
540	Denver basin
545	North Park basin
550	South Park basin
555	Eagle basin
560	San Luis basin
565	San Juan Mountain province
570	Uinta uplift
575	Uinta basin
580	San Juan basin
585	Paradox basin
590	Black Mesa basin
595	Piceance basin
600	Northern Cascade Range--Okanagan province
605	Eastern Columbia basin
610	Idaho Mountains province
615	Snake River basin
620	Southern Oregon basin

<u>Code</u>	<u>Province</u>
625	Great Basin province
630	Wasatch uplift
635	Plateau sedimentary province
640	Majave basin
645	Salton basin
650	Sierra Nevada province
700	Bellingham basin
705	Puget Sound province
710	Western Columbia basin
715	Klamath Mountains province
720	Eel River basin
725	Northern Coast Range province
730	Sacramento basin
735	Santa Cruz basin
740	Coastal basins
745	San Joaquin basin
750	Santa Maria basin
755	Ventura basin
760	Los Angeles basin
765	Capistrano basin
800	Heceta Island area
805	Keku Islands area
810	Gulf of Alaska basin
815	Copper River basin
820	Cook Inlet basin
830	Kandik province
835	Kobuk province
840	Koyukuk province
845	• Bristol Bay basin
850	Bethel basin
855	Norton basin
860	Selawik basin
863	Yukon Flats basin
865	Lower Tanana basin
867	Middle Tanana basin
870	Upper Tanana basin
873	Galena basin
875	Innoko basin
877	Minchumina basin
880	Holitna basin
885	Arctic Foothills province
890	Arctic Slope basin
900	Maine Atlantic offshore--general
901	Maine Atlantic offshore--State
902	Maine Atlantic offshore--Federal
903	New Hampshire Atlantic offshore--general

<u>Code</u>	<u>Province</u>
904	New Hampshire Atlantic offshore--State
905	New Hampshire Atlantic offshore--Federal
906	Massachusetts Atlantic offshore--general
907	Massachusetts Atlantic offshore--State
908	Massachusetts Atlantic offshore--Federal
909	Rhode Island Atlantic offshore--general
910	Rhode Island Atlantic offshore--State
911	Rhode Island Atlantic offshore--Federal
912	Connecticut Atlantic offshore--general
913	Connecticut Atlantic offshore--State
914	Connecticut Atlantic offshore--Federal
915	New York Atlantic offshore--general
916	New York Atlantic offshore--State
917	New York Atlantic offshore--Federal
918	New Jersey Atlantic offshore--general
919	New Jersey Atlantic offshore--State
920	New Jersey Atlantic offshore--Federal
921	Delaware Atlantic offshore--general
922	Delaware Atlantic offshore--State
923	Delaware Atlantic offshore--Federal
924	Maryland Atlantic offshore--general
925	Maryland Atlantic offshore--State
926	Maryland Atlantic offshore--Federal
927	Virginia Atlantic offshore--general
928	Virginia Atlantic offshore--State
929	Virginia Atlantic offshore--Federal
930	North Carolina Atlantic offshore--general
931	North Carolina Atlantic offshore--State
932	North Carolina Atlantic offshore--Federal
933	South Carolina Atlantic offshore--general
934	South Carolina Atlantic offshore--State
935	South Carolina Atlantic offshore--Federal
936	Georgia Atlantic offshore--general
937	Georgia Atlantic offshore--State
938	Georgia Atlantic offshore--Federal
939	Florida Atlantic offshore--general
940	Florida Atlantic offshore--State
941	Florida Atlantic offshore--Federal
942	Florida Gulf of Mexico offshore--general
943	Florida Gulf of Mexico offshore--State
944	Florida Gulf of Mexico offshore--Federal
945	Alabama Gulf of Mexico offshore--general
946	Alabama Gulf of Mexico offshore--State
947	Alabama Gulf of Mexico offshore--Federal
948	Mississippi Gulf of Mexico offshore--general
949	Mississippi Gulf of Mexico offshore--State
950	Mississippi Gulf of Mexico offshore--Federal
951	Louisiana Gulf of Mexico offshore--general

<u>Code</u>	<u>Province</u>
952	Louisiana Gulf of Mexico offshore--State
953	Louisiana Gulf of Mexico offshore--Federal
954	Texas Gulf of Mexico offshore--general
955	Texas Gulf of Mexico offshore--State
956	Texas Gulf of Mexico offshore--Federal
957	California Pacific offshore--general
958	California Pacific offshore--State
959	California Pacific offshore--Federal
960	Oregon Pacific offshore--general
961	Oregon Pacific offshore--State
962	Oregon Pacific offshore--Federal
963	Washington Pacific offshore--general
964	Washington Pacific offshore--State
965	Washington Pacific offshore--Federal
972	Alaska Arctic offshore--general
973	Alaska Arctic offshore--State
974	Alaska Arctic offshore--Federal
975	Alaska Bering Sea offshore--general
976	Alaska Bering Sea offshore--State
977	Alaska Bering Sea offshore--Federal
978	Alaska Pacific offshore--general
979	Alaska Pacific offshore--State
980	Alaska Pacific offshore--Federal
987	Minnesota Lake Superior offshore
988	Wisconsin Lake Superior offshore
989	Michigan Lake Superior offshore
990	Indiana Lake Michigan offshore
991	Illinois Lake Michigan offshore
992	Wisconsin Lake Michigan offshore
993	Michigan Lake Michigan offshore
994	Michigan Lake Huron offshore
995	Michigan Lake Erie offshore
996	Ohio Lake Erie offshore
997	Pennsylvania Lake Erie offshore
998	New York Lake Erie offshore
999	New York Lake Ontario offshore

TABLES

The following tables include the results of analyses and related source data from gas samples, which are divided into two groups as follows:

Table 1. - Samples from gas and oil wells in the United States.

Table 2. - Samples from pipelines in the United States.

The following list indicates the sources of the samples listed in the tables:

<u>Source</u>	<u>Number of samples</u>	<u>Tables</u>
Alabama	4	1
Arkansas	3	1
California	1	1
Colorado	5	1
Kansas	31	1, 2
Louisiana	17	1
Maryland	1	2
Mississippi	1	1
Montana	7	1
New Mexico	11	1
New York	4	1, 2
Ohio	5	2
Oklahoma	56	1
Pennsylvania	6	1, 2
Texas	67	1
West Virginia	12	1, 2
Wyoming	21	1

All components of the analyses in the tables are reported to the nearest 0.1 percent, except helium, which is reported to the nearest 0.01 percent. The work "trace" is used to denote quantities of helium of less than 0.005 percent and quantities of other components of less than 0.05 percent.

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14867	INDEX SAMPLE 14817	INDEX SAMPLE 14562
STATE.....	ALABAMA	ALABAMA	ALABAMA
COUNTY.....	FAYETTE	LAMAR	WALKER
FIELD.....	WILUCAT	FAIRVIEW	UNNAMED
WELL NAME.....	A. M. GRIMSLEY NO. 1	OGDEN NO. 9-5	FIRST NATIONAL BANK NO. 1
LOCATION.....	SEC. 31, T14S, R13W	SEC. 9, T14S, R14W	SEC. 36, T13S, R7W
OWNER.....	TERRA RESOURCES, INC.	CLEARY PETROLEUM CORP.	SHENANDOAH OIL CO.
COMPLETED.....	08/21/76	NOT GIVEN	03/15/74
SAMPLED.....	11/17/76	10/--/76	12/29/75
FORMATION.....	MISS-CARTER	MISS-CARTER	MISS-HARTSELLE
GEOLOGIC PROVINCE CODE.....	200	200	200
DEPTH, FEET.....	2696	2415	1798
WELLHEAD PRESSURE, PSIG.....	1180	705	778
OPEN FLOW, MCFD.....	3540	2005	2256
COMPONENT, MOLE PCT			
METHANE.....	96.3	90.0	97.6
ETHANE.....	2.2	4.4	0.4
PROPANE.....	0.1	1.8	0.1
N-BUTANE.....	TRACE	0.6	0.0
ISOBUTANE.....	0.0	0.2	0.0
N-PENTANE.....	0.1	0.2	0.0
ISOPENTANE.....	TRACE	0.1	0.0
CYCLOPENTANE.....	TRACE	0.1	0.0
HEXANES PLUS.....	TRACE	0.1	0.0
NITROGEN.....	1.1	2.2	1.8
OXYGEN.....	0.1	0.2	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	TRACE	TRACE
HELIUM.....	0.05	0.06	0.08
HEATING VALUE.....	1022	1086	999

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14784	INDEX SAMPLE 14703	INDEX SAMPLE 14847
STATE.....	ALABAMA	ARKANSAS	ARKANSAS
COUNTY.....	WASHINGTON	FRANKLIN	JOHNSON
FIELD.....	CHATOM	ROCK CREEK	OZONE
WELL NAME.....	CHATOM UNIT NO. 1-2	E. WALKER NO. 1-32	LEONARD ADAMS NO. 1-10
LOCATION.....	SEC. 20, T6N, R4W	SEC. 32, T11N, R26W	SEC. 10, T11N, R24W
OWNER.....	PHILLIPS PETROLEUM CO.	ARKANSAS WESTERN GAS CO.	ARKANSAS WESTERN GAS CO.
COMPLETED.....	NOT GIVEN	05/14/76	08/13/76
SAMPLED.....	09/20/76	06/16/76	10/27/76
FORMATION.....	JURA-SMACKOVER	MISS-WEDDINGTON	PENN-PATTERSON
GEOLOGIC PROVINCE CODE...	210	345	345
DEPTH, FEET.....	16039	2560	1658
WELLHEAD PRESSURE, PSIG...	2200	999	244
OPEN FLOW, MCFD.....	3900	1600	500
COMPONENT, MOLE PCT			
METHANE.....	65.3	97.0	97.9
ETHANE.....	9.2	0.9	0.1
PROPANE.....	3.8	0.1	TRACE
N-BUTANE.....	1.1	0.0	0.0
ISOBUTANE.....	0.9	0.0	0.0
N-PENTANE.....	0.3	0.0	0.0
ISOPENTANE.....	0.4	0.0	0.0
CYCLOPENTANE.....	0.1	0.0	0.0
HEXANES PLUS.....	0.2	0.0	0.0
NITROGEN.....	1.5	1.8	1.8
OXYGEN.....	0.0	0.0	0.1
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	13.8	0.0	0.0
CARBON DIOXIDE.....	3.4	0.1	TRACE
HELIUM.....	0.02	0.14	0.13
HEATING VALUE*.....	1125	1001	994

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 7 14558	INDEX SAMPLE 8 14626	INDEX SAMPLE 9 14678
STATE.....	ARKANSAS	CALIFORNIA	COLORADO
COUNTY.....	PUPE	SAN JOAQUIN	GARFIELD
FIELD.....	SILEX	UNION ISLAND	ROCK CANYON
WELL NAME.....	SILEX GAS UNIT NO. 3	YAMADA NO. 1	NO. 1-14
LOCATION.....	SEC. 22, T10N, R21W	SEC. 16, T1S, R5E	SEC. 14, T5S, R102W
OWNER.....	ARKANSAS LOUISIANA GAS CO.	UNION OIL CO. OF CALIFORNIA	SWEET PEA OIL & GAS CO.
COMPLETED.....	04/06/75	03/--/75	06/14/73
SAMPLED.....	01/14/76	04/01/76	05/--/76
FORMATION.....	-KELLY	CRET-WINTERS	CRET-DAKOTA
GEOLOGIC PROVINCE CODE...	345	730	595
DEPTH, FEET.....	2814	10000	6601
WELLHEAD PRESSURE, PSIG...	1100	4250	NOT GIVEN
OPEN FLOW, MCFD.....	6782	7000	540
COMPONENT, MOLE PCT			
METHANE.....	97.9	87.0	80.7
ETHANE.....	1.0	0.4	6.3
PROPANE.....	TRACE	0.1	2.5
N-BUTANE.....	0.0	0.0	0.7
ISOBUTANE.....	0.0	0.0	0.4
N-PENTANE.....	0.0	0.0	0.2
ISOPENTANE.....	0.0	0.0	0.3
CYCLOPENTANE.....	0.0	0.0	0.1
HEXANES PLUS.....	0.0	0.0	0.2
NITROGEN.....	0.8	11.8	5.1
OXYGEN.....	0.0	0.1	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.6	3.0
HELIUM.....	0.10	TRACE	0.44
HEATING VALUE*.....	1010	891	1068

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14591	INDEX SAMPLE 14679	INDEX SAMPLE 14671
STATE.....	COLORADO	COLORADO	COLORADO
COUNTY.....	PROWERS	RIO BLANCO	RIO BLANCO
FIELD.....	BETA	FOUNDATION CREEK	SOLDIER CANYON
WELL NAME.....	IDLER B NO. 1	STEELE NO. 1-35	USA25-C-1
LOCATION.....	SEC. 32, T22S, R47W	SEC. 35, T4S, R102W	SEC. 25, T4S, R101W
OWNER.....	TEXAS OIL & GAS CORP.	SWEET PEA OIL & GAS CO.	TIPPLEHARY OIL & GAS CORP.
COMPLETED.....	07/13/75	09/13/73	09/19/75
SAMPLED.....	02/26/76	05/19/76	05/14/76
FORMATION.....	PENN-MORROW	NOT GIVEN	CRET-DAKOTA
GEOLOGIC PROVINCE CODE.....	360	595	595
DEPTH, FEET.....	4528	6161	6896
WELLHEAD PRESSURE, PSIG.....	970	NOT GIVEN	2100
OPEN FLOW, MCFD.....	2000	890	1400
COMPONENT, MOLE PCT			
METHANE.....	71.7	49.2	93.8
ETHANE.....	9.9	1.9	0.9
PROPANE.....	3.9	0.6	0.1
N-BUTANE.....	0.8	0.3	TRACE
ISOBUTANE.....	0.5	0.1	0.1
N-PENTANE.....	0.1	0.1	0.0
ISOPENTANE.....	0.3	0.1	0.1
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	TRACE
NITROGEN.....	11.6	9.4	1.9
OXYGEN.....	0.0	TRACE	0.3
ARGON.....	0.0	0.1	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.9	37.5	2.6
HELIUM.....	0.23	0.49	0.04
HEATING VALUE*.....	1071	575	977

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14635	INDEX SAMPLE 14785	INDEX SAMPLE 14557
STATE.....	COLORADO	KANSAS	KANSAS
COUNTY.....	WELD	CLARK	CLARK
FIELD.....	HAMBERT	GRANGER CREEK	HARPER RANCH
WELL NAME.....	LOUIS DINNER NO. 1	DAILY NO. 1-1	HARPER RANCH NO. 1
LOCATION.....	SEC. 15, T4N, R66W	SEC. 1, T31S, R22W	SEC. 12, T34S, R21W
OWNER.....	AMOCO PRODUCTION CO.	MESA PETROLEUM CO.	TEXAS OIL & GAS CORP.
COMPLETED.....	01/06/76	01/23/76	NOT GIVEN
SAMPLED.....	04/12/76	09/24/76	NOT GIVEN
FORMATION.....	CRET-SUSSEX	PENN-MOKROW	PENN-MOKROW
GEOLOGIC PROVINCE CODE.....	540	360	360
DEPTH, FEET.....	4569	5199	5416
WELLHEAD PRESSURE, PSIG.....	NOT GIVEN	1530	NOT GIVEN
OPEN FLOW, MCFD.....	3000	47000	8155
COMPONENT, MOLE PCT			
METHANE.....	82.7	87.1	91.0
ETHANE.....	9.6	4.2	3.3
PROPANE.....	4.0	1.5	1.2
N-BUTANE.....	1.2	0.5	0.3
ISOBUTANE.....	0.6	0.2	0.2
N-PENTANE.....	0.2	0.1	0.1
ISOPENTANE.....	0.4	0.2	0.1
CYCLOPENTANE.....	TRACE	0.1	TRACE
HEXANES PLUS.....	0.2	0.1	TRACE
NITROGEN.....	0.9	5.6	3.4
OXYGEN.....	TRACE	0.0	0.1
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.2	0.1
HELIUM.....	0.02	0.25	0.12
HEATING VALUE*.....	1210	1042	1037

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FARENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14755	INDEX SAMPLE 14605	INDEX SAMPLE 14729
STATE.....	KANSAS	KANSAS	KANSAS
COUNTY.....	EDWARDS	EDWARDS	GREELEY
FIELD.....	WAYNE N	WOKATY	WILDCAT
WELL NAME.....	BRITTON NO. 1	RUSSELL "A" NO. 1	SELL "B" NO. 1
LOCATION.....	SEC. 15, T24S, R17W	SEC. 19, T25S, R16W	SEC. 3, T17S, R40W
OWNER.....	F. G. HOLL	D.R. LAUCK OIL CO., INC.	DORCHESTER EXPLORATION, INC.
COMPLETED.....	03/19/76	12/01/75	06/04/76
SAMPLED.....	09/14/76	03/03/76	08/02/76
FORMATION.....	MISS-	PENN-CHEROKEE	PERM-CHASE GROUP
GEOLOGIC PROVINCE CODE...	360	360	360
DEPTH, FEET.....	4321	4354	2994
WELLHEAD PRESSURE, PSIG...	1288	1185	516
OPEN FLOW, MCFD.....	5500	2800	1721
COMPONENT, MOLE PCT			
METHANE.....	88.8	85.7	35.8
ETHANE.....	3.2	3.3	3.2
PROPANE.....	1.1	1.0	2.4
N-BUTANE.....	0.3	0.3	0.9
ISOBUTANE.....	0.2	0.3	0.3
N-PENTANE.....	TRACE	TRACE	0.2
ISOPENTANE.....	0.1	0.1	0.2
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	TRACE	0.1
NITROGEN.....	5.6	8.3	55.3
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	0.1	0.1
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	0.4	0.1
HELIUM.....	0.57	0.48	1.13
HEATING VALUE*.....	1012	978	545

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 19 14730	INDEX SAMPLE 20 14682	INDEX SAMPLE 21 14736
STATE.....	KANSAS	KANSAS	KANSAS
COUNTY.....	GREELEY	HARPER	KLARNY
FIELD.....	WILUCAT	LITTLE SANDY CREEK	PANOMA
WELL NAME.....	WEAR "B" NO. 1	WILLIAMS NO. 2	KURZ "A" NO. 2
LOCATION.....	SEC. 25, T17S, R40W	SEC. 31, T32S, R9W	SEC. 30, T24S, R37W
OWNER.....	DORCHESTER EXPLORATION, INC.	ENERGY RESERVES GROUP, INC.	AMOCO PRODUCTION CO.
COMPLETED.....	05/14/76	03/24/76	07/23/76
SAMPLED.....	08/02/76	05/25/76	08/19/76
FORMATION.....	PERM-CHASE GROUP	MISS-	PERM-COUNCIL GROVE
GEOLOGIC PROVINCE CODE..	360	375	360
DEPTH, FEET.....	2941	4314	2827
WELLHEAD PRESSURE, PSIG..	522	1410	225
OPEN FLOW, MCFD.....	7624	6500	4500
COMPONENT, MOLE PCT			
METHANE.....	52.5	88.9	69.0
ETHANE.....	4.5	5.4	6.2
PROPANE.....	2.9	2.2	3.6
N-BUTANE.....	0.9	0.7	1.0
ISOBUTANE.....	0.4	0.2	0.4
N-PENTANE.....	0.2	0.2	0.2
ISOPENTANE.....	0.2	0.2	0.2
CYCLOPENTANE.....	TRACE	0.1	TRACE
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	37.3	1.9	18.7
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.1	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	TRACE	TRACE
HELIUM.....	0.86	0.10	0.46
HEATING VALUE*.....	754	1111	973

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 22 14625	INDEX SAMPLE 23 14740	INDEX SAMPLE 24 14572
STATE.....	KANSAS	KANSAS	KANSAS
COUNTY.....	KIOWA	KIOWA	MEADE
FIELD.....	PLEASANT VALLEY	PLEASANT VALLEY	CIMARRON BEND
WELL NAME.....	DURKEE No. 1	PAMAK-MILLER UNITA NO. 1	H.G. ADAMS III NO. F-4
LOCATION.....	SEC. 31, T28S, R20W	SEC. 31, T28S, R20W	SEC. 4, T35S, R29W
OWNER.....	HALLIBURTON OIL PROD. CO.	DONALD C. SLAWSON	K. CLAY UNDERWOOD
COMPLETED.....	07/17/75	04/14/75	05/15/75
SAMPLED.....	03/24/76	08/27/76	02/03/76
FORMATION.....	MISS-	MISS-	MISS-CHESTER
GEOLOGIC PROVINCE CODE...	360	360	360
DEPTH, FEET.....	5064	5021	5874
WELLHEAD PRESSURE, PSIG...	1400	1410	1580
OPEN FLOW, MCFD.....	8000	44780	1378
COMPONENT, MOLE PCT			
METHANE.....	84.7	84.2	87.8
ETHANE.....	4.9	4.9	3.4
PROPANE.....	1.8	1.8	2.0
N-BUTANE.....	0.5	0.6	0.5
ISOBUTANE.....	0.4	0.3	0.3
N-PENTANE.....	0.1	0.2	0.1
ISOPENTANE.....	0.3	0.2	0.1
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	6.8	7.1	5.4
OXYGEN.....	0.0	0.0	TRACE
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.1	0.1
HELIUM.....	0.33	0.34	0.22
HEATING VALUE*.....	1045	1040	1043

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 25 14573	INDEX SAMPLE 26 14574	INDEX SAMPLE 27 14741
STATE.....	KANSAS	KANSAS	KANSAS
COUNTY.....	MEADE	MEADE	MEADE
FIELD.....	CIMARRON BEND	CIMARRON BEND	CIMARRON BEND
WELL NAME.....	JESSE S. ADAMS NO. F-2	H. G. ADAMS III NO. F-3	ADAMS NO. 1-34
LOCATION.....	SEC. 10, T35S, R29W	SEC. 9, T35S, R29W	SEC. 34, T34S, R29W
OWNER.....	R. CLAY UNDERWOOD	R. CLAY UNDERWOOD	MESA PETROLEUM CO.
COMPLETED.....	12/15/75	03/25/75	NOT GIVEN
SAMPLED.....	02/03/76	02/03/76	NOT GIVEN
FORMATION.....	MISS-CHESTER	MISS-CHESTER	PENN-MORROW
GEOLOGIC PROVINCE CODE.....	360	360	360
DEPTH, FEET.....	5938	5873	NOT GIVEN
WELLHEAD PRESSURE, PSIG.....	1600	1520	1523
OPEN FLOW, MCFD.....	1423	765	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	87.8	88.6	83.1
ETHANE.....	5.0	4.8	6.2
PROPANE.....	2.8	2.3	3.9
N-BUTANE.....	0.7	0.5	1.2
ISOBUTANE.....	0.5	0.3	0.5
N-PENTANE.....	0.2	0.1	0.3
ISOPENTANE.....	0.2	0.2	0.4
CYCLOPENTANE.....	0.1	TRACE	0.1
HEXANES PLUS.....	0.2	0.1	0.3
NITROGEN.....	2.3	2.7	3.8
OXYGEN.....	0.0	TRACE	0.0
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.2	0.1
HELIUM.....	0.13	0.13	0.14
HEATING VALUE*.....	1123	1088	1160

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 28 14742	INDEX SAMPLE 29 14743	INDEX SAMPLE 30 14744
STATE.....	KANSAS	KANSAS	KANSAS
COUNTY.....	MEADE	MEADE	MEADE
FIELD.....	CIMARRON BEND	CIMARRON BEND	CIMARRON BEND
WELL NAME.....	ADAMS NO. 1-2	BAKLAGREE NO. 1-8	BAKLAGREE NO. 1-8
LOCATION.....	SEC. 2, T35S, R29W	SEC. 8, T35S, R28W	SEC. 8, T35S, R28W
OWNER.....	MESA PETROLEUM CO.	MESA PETROLEUM CO.	MESA PETROLEUM CO.
COMPLETED.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
SAMPLED.....	08/28/76	08/28/76	08/28/76
FORMATION.....	MISS-CHESTER & PENN-TORONTO	MISS-CHESTER	PENN-MORROW
GEOLOGIC PROVINCE CODE...	360	360	360
DEPTH, FEET.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
WELLHEAD PRESSURE, PSIG...	1290	1110	1405
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	85.3	85.8	85.8
ETHANE.....	5.3	5.1	5.5
PROPANE.....	3.0	2.4	2.8
N-BUTANE.....	0.8	0.6	0.8
ISOBUTANE.....	0.4	0.3	0.3
N-PENTANE.....	0.2	0.2	0.2
ISOPENTANE.....	0.2	0.1	0.3
CYCLOPENTANE.....	0.1	0.1	0.1
HEXANES PLUS.....	0.1	0.2	0.2
NITROGEN.....	5.6	4.9	3.7
OXYGEN.....	0.6	0.1	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.1	0.1
HELIUM.....	0.13	0.16	0.16
HEATING VALUE*.....	1083	1080	1113

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14745	INDEX SAMPLE 14746	INDEX SAMPLE 14774
STATE.....	KANSAS	KANSAS	KANSAS
COUNTY.....	MEADE	MEADE	MORTON
FIELD.....	HORACE S	HORACE S	UUNKLE
WELL NAME.....	ADAM NO. 1-33	ADAM NO. 1-33	UUNKLE "A" NO. 1
LOCATION.....	SEC. 33, T34S, R29W	SEC. 33, T34S, R29W	SEC. 1, T33S, R41W
OWNER.....	MESA PETROLEUM CO.	MESA PETROLEUM CO.	ANADARKO PRODUCTION CO.
COMPLETED.....	NOT GIVEN	NOT GIVEN	12/03/75
SAMPLED.....	08/28/76	08/28/76	09/17/76
FORMATION.....	MISS-CHESTER	PENN-MOKROW	PENN-WABAUNSEE
GEOLOGIC PROVINCE CODE...	360	360	360
DEPTH, FEET.....	5956	3896	3005
WELLHEAD PRESSURE, PSIG...	1365	1360	439
OPEN FLOW, MCFD.....	3200	2000	2248
COMPONENT, MOLE PCT			
METHANE.....	82.8	82.8	67.1
ETHANE.....	6.6	6.6	5.7
PROPANE.....	4.4	4.4	3.2
N-BUTANE.....	1.3	1.2	1.0
ISOBUTANE.....	0.5	0.5	0.4
N-PENTANE.....	0.3	0.3	0.3
ISOPENTANE.....	0.4	0.4	0.2
CYCLOPENTANE.....	0.1	0.1	0.1
HEXANES PLUS.....	0.3	0.2	0.2
NITROGEN.....	3.1	3.1	21.1
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	0.1
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.1	0.1
HELIUM.....	0.12	0.12	0.58
HEATING VALUE*.....	1181	1172	947

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 34 14773	INDEX SAMPLE 35 14798	INDEX SAMPLE 36 14636
STATE.....	KANSAS	KANSAS	KANSAS
COUNTY.....	MORTON	MORTON	PRATT
FIELD.....	GREENWOOD	PANOMA	ROLLINGSON
WELL NAME.....	KANSAS REGENTS NO. 2	KREY "A" NO. 1	MOORE "A" NO. 1
LOCATION.....	SEC. 15, T34S, R42W	SEC. 6, T33S, R40W	SEC. 35, T27S, R13W
OWNER.....	PAN EASTERN EXPLORATION CO.	ANADARKO PRODUCTION CO.	RAYMOND OIL CO., INC.
COMPLETED.....	08/18/76	05/10/76	10/07/75
SAMPLED.....	09/22/76	10/06/76	04/10/76
FORMATION.....	PENN-WABAUNSEE & IOPEKA	PERM-COUNCIL GROVE	PERM-RED EAGLE
GEOLOGIC PROVINCE CODE..	360	360	385
DEPTH, FEET.....	2612	2602	2592
WELLHEAD PRESSURE, PSIG..	124	203	820
OPEN FLOW, MCFD.....	1750	2136	2800
COMPONENT, MOLE PCT			
METHANE.....	65.3	68.0	68.7
ETHANE.....	6.4	6.0	3.8
PROPANE.....	4.1	3.3	2.1
N-BUTANE.....	1.3	1.0	0.5
ISOBUTANE.....	0.5	0.3	0.3
N-PENTANE.....	0.3	0.2	0.0
ISOPENTANE.....	0.3	0.2	0.2
CYCLOPENTANE.....	0.1	TRACE	TRACE
HEXANES PLUS.....	0.2	U.1	TRACE
NITROGEN.....	20.8	19.3	23.6
OXYGEN.....	0.0	0.7	0.0
ARGON.....	TRACE	U.1	TRACE
HYDROGEN.....	U.0	U.0	0.0
HYDROGEN SULFIDE**.....	0.0	U.0	0.0
CARBON DIOXIDE.....	0.1	U.1	0.1
HELIUM.....	0.54	0.47	0.63
HEATING VALUE*.....	983	948	854

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 37 14633	INDEX SAMPLE 38 14855	INDEX SAMPLE 39 14856
STATE.....	KANSAS	KANSAS	KANSAS
COUNTY.....	PRATT	SCOTT	SCOTT
FIELD.....	UNNAMED	NOT GIVEN	NOT GIVEN
WELL NAME.....	BUCKLIN ESTATE NO. 1	GRUBEN NO. 1	HUSHAW NO. 1
LOCATION.....	SEC. 17, T25S, R12W	SEC. 1, T20S, R34W	SEC. 12, T19S, R33W
OWNER.....	D. R. LAUCK OIL CO., INC.	M. L. BROWN	M. L. BROWN
COMPLETED.....	04/11/75	09/01/76	01/21/76
FORMATION.....	04/05/76	11/02/76	11/02/76
GEOLOGIC PROVINCE CODE.....	PERM-INDIAN CAVE	PERM-CHASE GROUP	PERM-CHASE GROUP
DEPTH, FEET.....	385	360	360
WELLHEAD PRESSURE, PSIG.....	2684	2670	2721
OPEN FLOW, MCFD.....	937	350	525
COMPONENT, MOLE PCT	959	700	700
METHANE.....	72.1	48.7	24.2
ETHANE.....	2.4	3.9	1.4
PROPANE.....	0.8	2.6	1.4
N-BUTANE.....	0.2	0.9	0.6
ISOBUTANE.....	0.2	0.3	0.2
N-PENTANE.....	TRACE	0.3	0.2
ISOPENTANE.....	TRACE	0.2	0.1
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	TRACE	0.1	0.1
NITROGEN.....	23.6	41.9	70.1
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	0.1	0.1
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.1	0.1
HELIUM.....	0.56	0.94	1.43
HEATING VALUE*.....	808	698	352

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14715	INDEX SAMPLE 14556	INDEX SAMPLE 14681
STATE.....	KANSAS	KANSAS	KANSAS
COUNTY.....	SEWARD	SEWARD	SEWARD
FIELD.....	HOLT	LIBERAL SE	WILDCAT
WELL NAME.....	HITCH F-3	HOWLAND NO. 1	BLACK NO. 1
LOCATION.....	SEC. 27, T32S, R34W	SEC. 10, T35S, R33W	SEC. 15, T34S, R31W
OWNER.....	CITIES SERVICE OIL CO.	BEREN CORP.	INCA OIL CO.
COMPLETED.....	04/01/76	12/11/75	05/27/76
SAMPLED.....	06/02/76	12/26/75	05/26/76
FORMATION.....	PERM-COUNCIL GROVE	PENN-MORROW	PENN-MORROW & MISS-CHESTER
GEOLOGIC PROVINCE CODE...	360	360	360
DEPTH, FEET.....	2986	6155	5679
WELLHEAD PRESSURE, PSIG...	262	422	1506
OPEN FLOW, MCFD.....	1648	3644	5500
COMPONENT, MOLE PCT			
METHANE.....	73.0	87.5	87.4
ETHANE.....	5.9	4.9	5.2
PROPANE.....	3.3	2.8	3.0
N-BUTANE.....	0.9	0.7	0.8
ISOBUTANE.....	0.4	0.4	0.4
N-PENTANE.....	0.2	0.2	0.2
ISOPENTANE.....	0.2	0.2	0.3
CYCLOPENTANE.....	0.1	TRACE	0.1
HEXANES PLUS.....	0.1	0.1	0.2
NITROGEN.....	15.4	2.5	2.1
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	0.0	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	0.3	0.2
HELIUM.....	0.46	0.15	0.13
HEATING VALUE*.....	1001	1106	1132

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14718	INDEX SAMPLE 14629	INDEX SAMPLE 14717
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	ASSUMPTION	BEAUREGARD	CALCASIEU
FIELD.....	BAYOU ST. VINCENT	FIELDS S	CHALKLEY N
WELL NAME.....	LABARRE-TRICHE NO. 4	AR8S NO. 7	F.R. HOLLAND NO. 1
LOCATION.....	SEC. 8, T13S, R13E	SEC. 31, T6S, R12W	SEC. 29, T11S, R6W
OWNER.....	SUN OIL CO.	SOHIO PETROLEUM CO.	SUN OIL CO.
COMPLETED.....	11/15/75	02/26/75	02/29/76
SAMPLED.....	07/08/76	03/02/76	07/01/76
FORMATION.....	MIOC-CRISTELLARIA	EUCO-WILCOX	OLIG-MRIO
GEOLOGIC PROVINCE CODE...	220	220	220
DEPTH, FEET.....	15051	11124	11256
WELLHEAD PRESSURE, PSIG...	8941	4000	4950
OPEN FLOW, MCFD.....	5246	10000	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	94.2	70.1	89.2
ETHANE.....	3.1	11.8	5.3
PROPANE.....	0.9	5.5	2.4
N-BUTANE.....	0.2	0.8	0.6
ISOBUTANE.....	0.3	0.8	0.8
N-PENTANE.....	TRACE	0.1	0.2
ISOPENTANE.....	0.1	0.2	0.2
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	0.2
NITROGEN.....	0.4	0.5	0.4
OXYGEN.....	TRACE	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.6	2.0	0.7
HELIUM.....	TRACE	0.01	TRACE
HEATING VALUE*.....	1059	1217	1135

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14721	INDEX SAMPLE 14735	INDEX SAMPLE 14611
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	CAMERON	DESOTO	DESOTO
FIELD.....	MALLARD BAY	HENSON	CASPIANA
WELL NAME.....	STATE LEASE 6574 LONG NO. 1	CLAYTON ENGLISH NO. 1	SUSIE B. OSBY NO. 1
LOCATION.....	SEC. 22, T13S, R3W	SEC. 2, T10N, R14W	SEC. 14, T15N, R13W
OWNER.....	TESORO PETROLEUM CORP.	TERKA RESOURCES, INC.	TENNECO OIL CO.
COMPLETED.....	07/12/76	04/16/76	NOT GIVEN
SAMPLED.....	07/23/76	06/13/76	03/12/76
FORMATION.....	OLIG-MARGINULINA	CRET-PALUXY	JURA-COTTON VALLEY
GEOLOGIC PROVINCE CODE..	220	230	230
DEPTH, FEET.....	8404	3124	9142
WELLHEAD PRESSURE, PSIG..	2650	1320	1500
OPEN FLOW, MCFD.....	550000	2300	1659
COMPONENT, MOLE PCT			
METHANE.....	93.3	94.0	90.4
ETHANE.....	2.9	2.4	4.9
PROPANE.....	1.4	1.1	1.3
N-BUTANE.....	0.4	0.4	0.3
ISOBUTANE.....	0.5	0.3	0.3
N-PENTANE.....	0.1	0.2	0.1
ISOPENTANE.....	0.1	0.1	0.1
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	0.2
NITROGEN.....	0.6	1.3	0.0
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	U.0	0.0
HYDROGEN SULFIDE**.....	0.0	U.0	0.0
CARBON DIOXIDE.....	0.6	TRACE	2.3
HELIUM.....	TRACE	U.03	TRACE
HEATING VALUE*.....	1077	1065	1076

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 49 14665	INDEX SAMPLE 50 14555	INDEX SAMPLE 51 14565
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARKISH.....	IBERIA	JACKSON	LAFOURCHE
FIELD.....	IBERIA	KEPPLER CREEK	JOE MCHUGH
WELL NAME.....	DUHE NO. 2	L. G. STEWART NO. 1	ARMAND BOURG ETAL NO. 1
LOCATION.....	SEC. 41, T12S, R8E	SEC. 14, T16N, R3W	SEC. 37, T15S, R20E
OWNER.....	ASHLAND OIL, INC.	JONES-O'BRIEN, INC.	AMOCO PRODUCTION CO.
COMPLETED.....	06/18/75	12/09/74	02/19/75.
SAMPLED.....	04/27/76	12/--/75	02/26/75
FORMATION.....	MIOC-ROCHAN	CRET-JAMES	MIOC-
GEOLOGIC PROVINCE CODE...	220	230	220
DEPTH, FEET.....	11412	6572	11788
WELLHEAD PRESSURE, PSIG...	4042	1892	5100
OPEN FLOW, MCFD.....	1321	2008	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	93.9	84.9	92.3
ETHANE.....	3.6	0.9	4.4
PROPANE.....	1.0	0.3	1.7
N-BUTANE.....	0.2	0.1	0.3
ISOBUTANE.....	0.3	0.1	0.5
N-PENTANE.....	TRACE	TRACE	0.1
ISOPENTANE.....	0.1	0.1	0.2
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	0.4	8.2	0.4
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.4	5.0	0.2
HELIUM.....	TRACE	0.09	TRACE
HEATING VALUE.....	1068	900	1103

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14158	INDEX SAMPLE 14858	INDEX SAMPLE 14752
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	LINCOLN	OUACHITA	PLAQUEMINES
FIELD.....	KUSTIN	DREW S	BRETON SOUND, BLK. 20
WELL NAME.....	PAUL E. BLACKMOND NO. 1	J. MCINTOSH NO. 1	STATE LEASE 1999 NO. 23
LOCATION.....	SEC. 1, T18N, R2W	SEC. 19, T18N, R2E	BRETON SOUND AREA
OWNER.....	CONSOLIDATED GAS SUPPLY CORP	FRANKS PETROLEUM, INC.	KERR-MCGEE CORP.
COMPLETED.....	07/06/73	NOT GIVEN	NOT GIVEN
SAMPLED.....	10/24/74	11/12/76	09/07/76
FORMATION.....	JURA-BODCAW	NOT GIVEN	NOT GIVEN
GEOLOGIC PROVINCE CODE...	230	230	951
DEPTH, FEET.....	9320	NOT GIVEN	NOT GIVEN
WELLHEAD PRESSURE, PSIG...	3000	NOT GIVEN	NOT GIVEN
OPEN FLOW, MCFD.....	6000	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	86.9	89.1	95.6
ETHANE.....	5.3	4.4	1.8
PROPANE.....	1.9	1.5	0.9
N-BUTANE.....	0.5	0.5	0.4
ISOBUTANE.....	0.5	0.2	0.3
N-PENTANE.....	0.1	0.1	0.2
ISOPENTANE.....	0.2	0.2	0.1
CYCLOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	0.2	0.1	0.3
NITROGEN.....	1.2	0.7	0.3
OXYGEN.....	0.2	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	TRACE	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	2.9	5.1	TRACE
HELIUM.....	0.02	0.03	TRACE
HEATING VALUE*.....	1081	1062	1090

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14873	INDEX SAMPLE 14623	INDEX SAMPLE 14624
STATE.....	LOUISIANA	LOUISIANA	LOUISIANA
PARISH.....	ST. LANDRY	ST. MARTIN	ST. MARTIN
FIELD.....	LAWTELL	BAYOU LONG	BAYOU LONG
WELL NAME.....	M. O. RICHARD ETAL NO. 1	JEANETTE L&S NO. 1	JEANETTE L&S NO. 3
LOCATION.....	SEC. 27, 16S, R3E	SEC. 13, T13S, R11E	SEC. 13, T13S, R11E
OWNER.....	SABINE PRODUCTION CO.	UNION OIL CO. OF CALIFORNIA	UNION OIL CO. OF CALIFORNIA
COMPLETED.....	08/26/75	11/20/74	07/14/75
SAMPLED.....	12/16/76	03/17/76	03/17/76
FORMATION.....	OLIG-FRIO	MIOC-PLANULINA	MIOC-PLANULINA
GEOLOGIC PROVINCE CODE.....	220	220	220
DEPTH, FEET.....	9340	13570	13360
WELLHEAD PRESSURE, PSIG...	3789	5200	5200
OPEN FLOW, MCFD.....	3000	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCI			
METHANE.....	88.4	94.8	94.7
ETHANE.....	5.1	2.3	2.3
PROPANE.....	3.2	0.8	0.8
N-BUTANE.....	0.9	0.1	0.2
ISOBUTANE.....	0.8	0.3	0.3
N-PENTANE.....	0.2	0.1	TRACE
ISOPENTANE.....	0.3	TRACE	0.1
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.2	0.1	0.1
NITROGEN.....	0.6	0.5	0.5
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	1.1	0.9
HELIUM.....	0.01	TRACE	TRACE
HEATING VALUE*.....	1159	1045	1048

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 58 14637	INDEX SAMPLE 59 14640	INDEX SAMPLE 60 14739
STATE.....	LOUISIANA	LOUISIANA	MISSISSIPPI
PARISH.....	TERREBONNE	UNION	CLAY
FIELD.....	LAKE HATCH	MT. OLIVE	CORRINE
WELL NAME.....	FEE NO. 2	L. C. MINTER NO. 1	WILSON NO. 24-1
LOCATION.....	SEC. 8, T18S, R16E	SEC. 3, T21N, R3W	SEC. 24, T16S, R7E
OWNER.....	LOUISIANA LAND & EXP. CO.	GETTY OIL CO.	R. L. BURNS CORP.
COMPLETED.....	09/29/74	01/13/76	12/29/73
SAMPLED.....	03/30/76	04/22/76	08/23/76
FORMATION.....	MIOC-DU-1	JURA-HAYNESVILLE	MISS-CARTER
GEOLOGIC PROVINCE CODE..	220	230	200
DEPTH, FEET.....	8670	10310	5191
WELLHEAD PRESSURE, PSIG..	3096	2531	1890
OPEN FLOW, MCFD.....	NOT GIVEN	8600	2000
COMPONENT, MOLE PCT			
METHANE.....	96.6	81.7	87.1
ETHANE.....	1.9	8.3	6.8
PROPANE.....	0.5	3.5	2.7
N-BUTANE.....	0.1	1.0	0.8
ISOBUTANE.....	0.2	0.9	0.4
N-PENTANE.....	0.0	0.2	0.3
ISOPENTANE.....	0.1	0.3	0.3
CYCLOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	TRACE	0.1	0.2
NITROGEN.....	0.5	2.5	1.0
OXYGEN.....	0.0	0.3	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	1.2	0.1
HELIUM.....	TRACE	0.02	0.08
HEATING VALUE.....	1040	1158	1154

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 61 14672	INDEX SAMPLE 62 14673	INDEX SAMPLE 63 14850
STATE.....	MONTANA	MONTANA	MONTANA
COUNTY.....	HILL	HILL	HILL
FIELD.....	NOT GIVEN	NOT GIVEN	TIGER RIDGE
WELL NAME.....	PAPILLO NO. 28-1	MILAM NO. 25-1	LONG NO. 30-15
LOCATION.....	SEC. 28, T33N, R15E	SEC. 25, T33N, R14E	SEC. 30, T34N, R15E
OWNER.....	J. BURNS BROWN	J. BURNS BROWN	OIL RESOURCES INC.
COMPLETED.....	--/--/75	--/--/75	NOT GIVEN
SAMPLED.....	05/12/76	05/03/76	10/26/76
FORMATION.....	CRET-EAGLE	CRET-EAGLE	CRET-EAGLE
GEOLOGIC PROVINCE CODE...	500	500	500
DEPTH, FEET.....	1000	1000	NOT GIVEN
WELLHEAD PRESSURE, PSIG...	450	450	410
OPEN FLOW, MCFD.....	1400	1200	16393
COMPONENT, MOLE PCT			
METHANE.....	93.5	96.7	96.8
ETHANE.....	0.4	0.4	0.4
PROPANE.....	0.1	0.1	0.1
N-BUTANE.....	TRACE	0.0	0.0
ISOBUTANE.....	0.1	TRACE	0.0
N-PENTANE.....	TRACE	TRACE	0.0
ISOPENTANE.....	TRACE	TRACE	0.0
CYCLOPENTANE.....	TRACE	TRACE	0.0
HEXANES PLUS.....	TRACE	TRACE	0.0
NITROGEN.....	5.1	2.7	0.0
OXYGEN.....	0.4	0.0	2.6
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.0	0.0
HELIUM.....	0.04	0.08	0.07
HEATING VALUE*.....	960	989	990

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 64 14583	INDEX SAMPLE 65 14584	INDEX SAMPLE 66 14617
STATE.....	MONTANA	MONTANA	MONTANA
COUNTY.....	PHILLIPS	PHILLIPS	PHILLIPS
FIELD.....	WILDCAT	WILDCAT	WILDCAT
WELL NAME.....	2970 NO. 1	2061 NO. 1	FEDERAL 223631 NO. 1
LOCATION.....	SEC. 29, T37N, R30E	SEC. 20, T36N, R31E	SEC. 22, T36N, R31E
OWNER.....	MIDLANDS GAS CORP.	MIDLANDS GAS CORP.	ODESSA NATURAL CORP.
COMPLETED.....	11/18/75	09/14/75	01/15/76
SAMPLED.....	01/29/76	01/29/76	03/22/76
FORMATION.....	CRET-BOWDOIN	CRET-PHILLIPS	CRET-BOWDOIN
GEOLOGIC PROVINCE CODE...	395	395	395
DEPTH, FEET.....	1397	1461	1336
WELLHEAD PRESSURE, PSIG...	554	608	565
OPEN FLOW, MCFD.....	225	450	2518
COMPONENT, MOLE PCT			
METHANE.....	92.8	93.0	92.9
ETHANE.....	0.3	0.3	0.3
PROPANE.....	0.1	TRACE	0.1
N-BUTANE.....	0.0	0.0	0.0
ISOBUTANE.....	0.0	0.0	0.0
N-PENTANE.....	0.0	0.0	0.0
ISOPENTANE.....	0.0	0.0	0.0
CYCLOPENTANE.....	0.0	0.0	0.0
HEXANES PLUS.....	0.0	0.0	0.0
NITROGEN.....	6.4	6.3	6.5
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	0.2	0.1
HELIUM.....	0.09	0.08	0.08
HEATING VALUE.....	948	947	949

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14639	INDEX SAMPLE 14818	INDEX SAMPLE 14809
STATE.....	MONTANA	NEW MEXICO	NEW MEXICO
COUNTY.....	POWDER RIVER	CHAVES	LUDY
FIELD.....	PUMPKIN CREEK	DOUBLE L	ANGELL RANCH
WELL NAME.....	ALLEN NO. 1	FEDERAL 17 NO. 1	WRIGHT-FEDERAL NO. 1
LOCATION.....	SEC. 24, T1S, R49E	SEC. 17, T15S, R30E	SEC. 6, T20S, R28E
OWNER.....	MCCULLOCH OIL CORP.	MCCLELLAN OIL CORP.	PENROC OIL CORP.
COMPLETED.....	08/--/75	03/25/75	08/22/75
SAMPLED.....	04/--/76	10/27/76	10/15/76
FORMATION.....	CRET-SHANNON	PERM-QUEEN	PENN-MORROW
GEOLOGIC PROVINCE CODE...	515	430	430
DEPTH, FEET.....	3058	2018	10828
WELLHEAD PRESSURE, PSIG...	706	350	3385
OPEN FLOW, MCFD.....	42000	5973	3439
COMPONENT, MOLE PCT			
METHANE.....	95.3	25.6	91.4
ETHANE.....	0.3	6.6	4.9
PROPANE.....	TRACE	5.0	1.6
N-BUTANE.....	TRACE	0.8	0.4
ISOBUTANE.....	0.1	0.3	0.2
N-PENTANE.....	TRACE	0.2	0.1
ISOPENTANE.....	0.1	0.2	0.2
CYCLOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	0.1	0.1	0.2
NITROGEN.....	3.9	63.1	0.4
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.1	0.6
HELIUM.....	0.04	0.07	0.02
HEATING VALUE*.....	984	515	1102

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 70 14711	INDEX SAMPLE 71 14675	INDEX SAMPLE 72 14719
STATE.....	NEW MEXICO	NEW MEXICO	NEW MEXICO
COUNTY.....	EDDY	EDDY	EDDY
FIELD.....	CROW FLATS	GOLDEN LANE	LA HUERTA
WELL NAME.....	AMOCO FED. NO. 1	HARRIS "6" NO. 1	IVES "A" NO. 1
LOCATION.....	SEC. 19, T16S, R28E	SEC. 6, T21S, R29E	SEC. 30, T21S, R27E
OWNER.....	SAMEDAN OIL CORP.	MEADCO PROPERTIES	CITIES SERVICE OIL CO.
COMPLETED.....	--/--/74	02/19/75	10/24/75
SAMPLED.....	06/27/76	05/--/76	07/15/76
FORMATION.....	PENN-MORROW	PENN-ATOKA	PENN-MORROW
GEOLOGIC PROVINCE CODE...	430	430	430
DEPTH, FEET.....	NOT GIVEN	11438	11186
WELLHEAD PRESSURE, PSIG...	1255	3707	1550
OPEN FLOW, MCFD.....	500	5094	36207
COMPONENT, MOLE PCT			
METHANE.....	87.4	81.8	93.7
ETHANE.....	6.9	10.2	3.5
PROPANE.....	3.1	3.8	0.9
N-BUTANE.....	0.8	1.1	0.2
ISOBUTANE.....	0.3	0.6	0.2
N-PENTANE.....	0.2	0.3	0.0
ISOPENTANE.....	0.3	0.3	0.1
CYCLOPENTANE.....	TRACE	0.1	TRACE
HEXANES PLUS.....	0.1	0.2	0.1
NITROGEN.....	0.5	1.5	0.4
OXYGEN.....	0.0	TRACE	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	0.0	0.0
HELIUM.....	0.02	0.02	0.02
HEATING VALUE*.....	1153	1207	1058

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14608	INDEX SAMPLE 14720	INDEX SAMPLE 14788
STATE.....	NEW MEXICO	NEW MEXICO	NEW MEXICO
COUNTY.....	EDDY	EDDY	EDDY
FIELD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
WELL NAME.....	ALLIED B NO. 1	LITTLE BOX CANYON NO. 1	GULF FEDERAL NO. 1
LOCATION.....	SEC. 27, T20S, R27E	SEC. 7, T21S, R22E	SEC. 35, T19S, R25E
OWNER.....	PENRUC OIL CORP.	CITIES SERVICE OIL CO.	HILLIARD OIL & GAS, INC.
COMPLETED.....	NOT GIVEN	09/05/75	04/11/74
SAMPLED.....	03/10/76	07/15/76	09/28/76
FORMATION.....	PERM-BONE SPRING	PENN-MORROW	PENN-MORROW
GEOLOGIC PROVINCE CODE...	430	430	430
DEPTH, FEET.....	NOT GIVEN	7986	9325
WELLHEAD PRESSURE, PSIG...	NOT GIVEN	1500	3020
OPEN FLOW, MCFD.....	128	2426	2639
COMPONENT, MOLE PCT			
METHANE.....	84.8	93.1	95.5
ETHANE.....	6.5	3.8	2.5
PROPANE.....	2.6	0.9	0.4
N-BUTANE.....	1.2	0.2	0.1
ISOBUTANE.....	0.6	0.2	0.1
N-PENTANE.....	0.4	TRACE	0.0
ISOPENTANE.....	1.2	TRACE	0.1
CYCLOPENTANE.....	0.1	TRACE	TRACE
HEXANES PLUS.....	0.5	0.1	TRACE
NITROGEN.....	1.1	1.2	0.3
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.0	0.3	0.8
HELIUM.....	0.02	0.03	0.03
HEATING VALUE*.....	1201	1053	1034

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14683	INDEX SAMPLE 14802	INDEX SAMPLE 14677
STATE.....	NEW MEXICO	NEW MEXICO	NEW MEXICO
COUNTY.....	EDDY	EDDY	LEA
FIELD.....	PHANTOM DRAW	WILUCAT	KEMNITZ
WELL NAME.....	PHANTOM DRAW FED. UNIT NO. 1	ROSS FEDERAL "EG" NO. 1	STATE NO. 13-1
LOCATION.....	SEC. 20, T26S, R31E	SEC. 20, T19S, R25E	SEC. 13, T16S, R33E
OWNER.....	TEXAS PACIFIC OIL CO., ET AL	YATES PETROLEUM CORP.	GREAT WESTERN DRILLING CO.
COMPLETED.....	09/01/75	06/07/75	11/12/75
SAMPLED.....	05/28/76	10/12/76	05/24/76
FORMATION.....	PERM-WOLFCAMP	PENN-MURROW	PENN-ATOKA
GEOLOGIC PROVINCE CODE.....	430	430	430
DEPTH, FEET.....	12670	9128	12660
WELLHEAD PRESSURE, PSIG.....	7000	325	4200
OPEN FLOW, MCFD.....	19789	2025	2436
COMPONENT, MOLE PCT			
METHANE.....	88.8	93.3	83.3
ETHANE.....	6.7	3.1	7.9
PROPANE.....	1.9	0.7	2.7
N-BUTANE.....	0.6	0.2	0.7
ISOBUTANE.....	0.4	0.1	0.4
N-PENTANE.....	0.2	0.1	0.2
ISOPENTANE.....	0.2	0.1	0.2
CYCLOPENTANE.....	0.1	0.1	TRACE
HEXANES PLUS.....	0.2	0.2	0.1
NITROGEN.....	0.7	0.5	3.8
OXYGEN.....	0.0	0.0	0.5
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	1.7	0.3
HELIUM.....	0.01	0.03	0.05
HEATING VALUE*.....	1134	1052	1115

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 79 14725	INDEX SAMPLE 80 14857	INDEX SAMPLE 81 14613
STATE.....	NEW YORK	NEW YORK	NEW YORK
COUNTY.....	ALLEGANY	CHAUTAUQUA	CHAUTAUQUA
FIELD.....	NEW ORISKANY	NOT GIVEN	WILDCAT
WELL NAME.....	BEERS NO. 1	CHAUTAUQUA 4 NO. 1	LEGTERS BROTHERS NO. 1
LOCATION.....	LOT 30, BOLIVAR TOWNSHIP	PANAMA QUADRANGLE	NOT GIVEN
OWNER.....	THOMAS E. HUNGERFORD	SEIS-EX. GEOPHYSICAL LTD.	EDGECLIFF RESOURCES, INC.
COMPLETED.....	07/01/76	11/03/76	NOT GIVEN
SAMPLED.....	07/22/76	11/03/76	03/11/76
FORMATION.....	DEVO-TULLY	SILU-MEDINA	SILU-MEDINA
GEOLOGIC PROVINCE CODE...	160	160	160
DEPTH, FEET.....	4200	4237	3828
WELLHEAD PRESSURE, PSIG...	1130	1150	825
OPEN FLOW, MCFD.....	7000	NOT GIVEN	50
COMPONENT, MOLE PCT			
METHANE.....	81.2	87.8	90.3
ETHANE.....	12.1	3.7	4.2
PROPANE.....	4.0	0.9	0.8
N-BUTANE.....	1.0	0.3	0.2
ISOBUTANE.....	0.4	0.2	0.2
N-PENTANE.....	0.2	0.1	TRACE
ISOPENTANE.....	0.2	TRACE	0.1
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.2	0.1
NITROGEN.....	0.7	6.7	4.0
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	TRACE	0.1
HELIUM.....	0.03	0.15	0.14
HEATING VALUE*.....	1213	1010	1034

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 82 14865	INDEX SAMPLE 83 14722	INDEX SAMPLE 84 14564
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	BEAVER	BEAVER	BEAVER
FIELD.....	DUMBY	MOCANE LAVERNE	MOCANE NW
WELL NAME.....	DAVIS NO. 2-11	GREGG NO. 1	GIRK B NO. 3
LOCATION.....	SEC. 11, T3N, R21ECM	SEC. 26, T4N, R22ECM	SEC. 35, T6N, R24ECM
OWNER.....	WECO DEVELOPMENT CO.	ARGONAUT ENERGY CORP.	CITIES SERVICE OIL CO.
COMPLETED.....	08/06/76	01/23/76	07/08/75
SAMPLED.....	12/03/76	07/27/76	01/21/76
FORMATION.....	MISS-CHESTER	MISS-CHESTER	PERM-COUNCIL GROVE
GEOLOGIC PROVINCE CODE...	360	360	360
DEPTH, FEET.....	6766	6884	3247
WELLHEAD PRESSURE, PSIG...	1410	1710	824
OPEN FLOW, MCFD.....	3318	4546	2547
COMPONENT, MOLE PCT			
METHANE.....	90.2	95.3	78.5
ETHANE.....	4.4	5.1	6.0
PROPANE.....	2.2	1.2	2.7
N-BUTANE.....	0.7	0.4	0.7
ISOBUTANE.....	0.2	0.1	0.4
N-PENTANE.....	0.2	0.1	0.2
ISOPENTANE.....	0.3	0.2	0.1
CYCLOPENTANE.....	0.1	0.1	TRACE
HEXANES PLUS.....	0.2	0.1	0.1
NITROGEN.....	1.1	0.8	10.2
OXYGEN.....	0.0	0.1	0.4
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	0.3	TRACE
HELIUM.....	0.12	0.08	0.41
HEATING VALUE*.....	1115	1070	1028

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14716	INDEX SAMPLE 14586	INDEX SAMPLE 14632
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	BEAVER	BLAINE	LAUDO
FIELD.....	MOCANE NW	EAGLE CITY N	CANYON CITY
WELL NAME.....	GIRK NO. B-3	MEAL GOVERNMENT NO. 15-1	ARNOLD NO. 1
LOCATION.....	SEC. 35, T6N, R24ECM	SEC. 15, T17N, R13W	SEC. 23, T11N, R11W
OWNER.....	CITIES SERVICE OIL CO.	WOODS PETROLEUM CORP.	MONSANTO CO.
COMPLETED.....	07/07/75	05/28/75	05/27/75
SAMPLED.....	06/30/76	02/23/76	04/09/76
FORMATION.....	MISS-CHESTER	PENN-MORROW	PENN-REDFORK
GEOLOGIC PROVINCE CODE...	360	360	360
DEPTH, FEET.....	6240	9063	12142
WELLHEAD PRESSURE, PSIG...	733	4700	6600
OPEN FLOW, MCFD.....	450	2564	NOT GIVEN
COMPONENT, MOLE PCI			
METHANE.....	88.9	84.1	85.9
ETHANE.....	5.2	7.6	8.7
PROPANE.....	2.6	4.3	2.7
N-BUTANE.....	0.8	1.2	0.5
ISOBUTANE.....	0.3	0.5	0.4
N-PENTANE.....	0.2	0.1	TRACE
ISOPENTANE.....	0.3	0.4	0.2
CYCLOPENTANE.....	0.1	TRACE	TRACE
HEXANES PLUS.....	0.2	0.1	0.1
NITROGEN.....	1.3	1.2	0.6
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.4	0.9
HELIUM.....	0.09	0.03	0.03
HEATING VALUE.....	1134	1183	1140

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14706	INDEX SAMPLE 14723	INDEX SAMPLE 14579
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	CADDO	CADDO	CADDO
FIELD.....	COGAR	COGAR	COGAR S
WELL NAME.....	BELT UNIT NO. 1	C. HENSLEY NO. 2-25	SHADID NO. 1
LOCATION.....	SEC. 21, T10N, R9W	SEC. 25, T9N, R9W	SEC 16, T9N, R9W
OWNER.....	AMOCO PRODUCTION CO.	TENNECO OIL CO.	TENNECO OIL CO.
COMPLETED.....	04/19/76	NOT GIVEN	NOT GIVEN
SAMPLED.....	06/21/76	07/28/76	02/10/76
FORMATION.....	PERM-SPRINGER	PENN-MORROW	PENN-MORROW
GEOLOGIC PROVINCE CODE.....	360	360	360
DEPTH, FEET.....	12682	13356	13712
WELLHEAD PRESSURE, PSIG.....	NOT GIVEN	7400	6600
OPEN FLOW, MCFD.....	4600	NOT GIVEN	11289
COMPONENT, MOLE PCT			
METHANE.....	92.5	91.8	96.3
ETHANE.....	4.4	4.3	1.8
PROPANE.....	1.2	1.1	0.2
N-BUTANE.....	0.2	0.2	0.0
ISOBUTANE.....	0.1	0.2	TRACE
N-PENTANE.....	TRACE	0.0	TRACE
ISOPENTANE.....	0.1	0.1	TRACE
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	TRACE	0.1	TRACE
NITROGEN.....	0.5	1.3	0.2
OXYGEN.....	0.1	0.2	0.0
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.7	0.9	1.3
HELIUM.....	0.02	0.02	0.02
HEATING VALUE.....	1061	1058	1013

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 91 14728	INDEX SAMPLE 92 14819	INDEX SAMPLE 93 14614
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	CADDU	CADDU	CANADIAN
FIELD.....	COGAR SW	WATONGA TREND	WILES S E
WELL NAME.....	HUMPHREY NO. 1	STANDIFER UNIT NO. 1	GOUDARD UNIT NO. 1
LOCATION.....	SEC. 12, T10N, R9W	SEC. 1, T10N, R9W	SEC. 28, T11N, R10W
OWNER.....	FERGUSON OIL CO.	DONALD C. SLAWSON	MOBIL OIL CORP.
COMPLETED.....	01/28/76	09/02/76	01/15/76
SAMPLED.....	08/02/76	10/27/76	03/17/76
FORMATION.....	PENN-SPRINGER	PENN-SPRINGER	PENN-SPRINGER
GEOLOGIC PROVINCE CODE...	360	360	360
DEPTH, FEET.....	11812	11643	13000
WELLHEAD PRESSURE, PSIG...	7501	7436	7800
OPEN FLOW, MCFD.....	70325	NOT GIVEN	2924
COMPONENT, MOLE PCT			
METHANE.....	97.6	95.3	96.9
ETHANE.....	1.2	2.6	1.2
PROPANE.....	0.2	0.7	0.2
N-BUTANE.....	0.0	0.1	TRACE
ISOBUTANE.....	0.0	0.1	TRACE
N-PENTANE.....	0.0	0.0	TRACE
ISOPENTANE.....	0.0	0.1	TRACE
CYCLOPENTANE.....	0.0	TRACE	TRACE
HEXANES PLUS.....	0.0	TRACE	TRACE
NITROGEN.....	0.3	0.4	0.2
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.7	0.7	1.2
HELIUM.....	0.02	0.02	0.02
HEATING VALUE*.....	1015	1041	1008

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14753	INDEX SAMPLE 14609	INDEX SAMPLE 14792
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	CANADIAN	CANADIAN	COAL
FIELD.....	RICHLAND N	WATONGA TREND	ASHLAND S
WELL NAME.....	N. J. KRUGER NO. 15-1	N. M. VICKERY NO. 1	SMALLEY NO. 1-12
LOCATION.....	SEC. 15, T13N, R6W	SEC. 30, T11N, R9W	SEC. 12, T3N, R1E
OWNER.....	JONES & PELLOW OIL CO.	TENNECO OIL CO.	CONTINENTAL OIL CO.
COMPLETED.....	06/23/76	11/26/75	NOT GIVEN
SAMPLED.....	09/13/76	03/04/76	09/30/76
FORMATION.....	DEVO-HUNTON	PENN-MORROW	PENN-HARTSHORNE
GEOLOGIC PROVINCE CODE...	360	360	345
DEPTH, FEET.....	8451	11955	3320
WELLHEAD PRESSURE, PSIG...	1848	4400	500
OPEN FLOW, MCFD.....	3905	5600	5300
COMPONENT, MOLE PCT			
METHANE.....	81.4	95.8	85.4
ETHANE.....	11.0	5.4	3.1
PROPANE.....	4.2	0.8	1.5
N-BUTANE.....	1.1	0.1	0.4
ISOBUTANE.....	0.4	0.2	0.2
N-PENTANE.....	0.2	TRACE	0.1
ISOPENTANE.....	0.3	0.1	0.1
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	1.0	0.4	8.3
OXYGEN.....	0.0	0.0	0.3
ARGON.....	TRACE	TRACE	0.1
HYDROGEN.....	0.0	0.1	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	1.1	0.5
HELIUM.....	0.03	0.02	0.12
HEATING VALUE*.....	1208	1052	993

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14587	INDEX SAMPLE 14737	INDEX SAMPLE 14735
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	DEWEY	DEWEY	DEWEY
FIELD.....	CESTOS	EAGLE CITY W	PUTNAM
WELL NAME.....	TERREL NO. 1	ROY WOMACK UNIT NO. 1	GOSDA UNIT NO. 1
LOCATION.....	SEC. 2, T17N, R20W	SEC. 36, T17N, R14W	SEC. 8, T17N, R17W
OWNER.....	WOODS PETROLEUM CORP.	BONHAY OIL CO.	ENERGY RESERVES GROUP, INC.
COMPLETED.....	01/15/76	04/24/76	04/18/76
SAMPLED.....	02/23/76	08/25/76	08/18/76
FORMATION.....	PENN-MORROW	PENN-MORROW	DEVON-HUNTON
GEOLOGIC PROVINCE CODE...	360	360	360
DEPTH, FEET.....	9102	9700	13362
WELLHEAD PRESSURE, PSIG...	3400	5430	4150
OPEN FLOW, MCFD.....	1000	1500	44
COMPONENT, MOLE PCT			
METHANE.....	95.5	90.0	93.3
ETHANE.....	2.3	5.8	0.4
PROPANE.....	0.7	2.0	0.1
N-BUTANE.....	0.1	0.4	0.0
ISOBUTANE.....	0.1	0.2	0.0
N-PENTANE.....	TRACE	0.1	0.0
ISOPENTANE.....	0.1	0.2	0.0
CYCLOPENTANE.....	TRACE	TRACE	0.0
HEXANES PLUS.....	0.1	0.1	0.0
NITROGEN.....	0.5	0.6	1.4
OXYGEN.....	0.0	TRACE	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	U.0	0.0
HYDROGEN SULFIDE**.....	0.0	U.0	0.0
CARBON DIOXIDE.....	0.4	0.4	4.9
HELIUM.....	0.08	0.04	0.03
HEATING VALUE*.....	1043	1106	955

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14630	INDEX SAMPLE 14724	INDEX SAMPLE 14789
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	ELLIS	ELLIS	GARVIN
FIELD.....	BAYLESS E	PACKSADULE	GOLDEN TREND
WELL NAME.....	STATE NO. 1	WAGNON NO. 1-11	ELLITHORPE "A" NO. 1
LOCATION.....	SEC. 32, T19N, R21W	SEC. 11, T16N, R24W	SEC. 12, T3N, R3W
OWNER.....	ENSERCH EXPLORATION, INC.	TENNECO OIL CO.	PHILLIPS PETROLEUM CO.
COMPLETED.....	09/03/75	04/30/76	11/07/74
SAMPLED.....	03/26/76	07/--/76	10/01/76
FORMATION.....	PENN-MORROW	PENN-TONKAWA	ORDO-MCLISH
GEOLOGIC PROVINCE CODE...	360	360	350
DEPTH, FEET.....	11060	8107	8496
WELLHEAD PRESSURE, PSIG...	3850	2100	2500
OPEN FLOW, MCFD.....	3600	2600	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	89.1	86.3	77.8
ETHANE.....	5.7	7.5	9.3
PROPANE.....	2.1	3.0	6.0
N-BUTANE.....	0.5	0.7	2.1
ISOBUTANE.....	0.4	0.4	0.8
N-PENTANE.....	0.1	0.1	0.5
ISOPENTANE.....	0.1	0.2	0.5
CYCLOPENTANE.....	TRACE	0.1	0.1
HEXANES PLUS.....	0.1	0.2	0.2
NITROGEN.....	0.6	1.2	2.5
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.2	0.3	0.1
HELIUM.....	0.04	0.11	0.04
HEATING VALUE*.....	1103	1150	1265

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14790	INDEX SAMPLE 14815	INDEX SAMPLE 14618
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	GARVIN	GRADY	GRADY
FIELD.....	GOLDEN TREND	TABLER S	WILDCAT
WELL NAME.....	ELLITHORPE "A" NO. 1	WEAVER NO. 1	SHUCKEY NO. 1
LOCATION.....	SEC. 12, T3N, R3W	SEC. 21, T6N, R6W	SEC. 36, T7N, R7W
OWNER.....	PHILLIPS PETROLEUM CO.	KERR-MCGEE CORP.	COTTON PETROLEUM CORP.
COMPLETED.....	11/20/74	04/21/76	01/03/76
SAMPLED.....	10/01/76	10/15/76	03/--/76
FORMATION.....	ORDO-BROMIDE	PENN-SPRINGER	PENN-SPRINGER
GEOLOGIC PROVINCE CODE.....	350	360	560
DEPTH, FEET.....	8232	12997	13043
WELLHEAD PRESSURE, PSIG.....	2200	4150	9061
OPEN FLOW, MCFD.....	NOT GIVEN	5117	37000
COMPONENT, MOLE PCT			
METHANE.....	39.7	85.7	86.7
ETHANE.....	15.5	7.8	7.7
PROPANE.....	23.5	3.7	2.9
N-BUTANE.....	9.6	0.7	0.5
ISOBUTANE.....	6.2	0.3	0.3
N-PENTANE.....	1.8	0.1	TRACE
ISOPENTANE.....	2.3	0.3	0.2
CYCLOPENTANE.....	0.2	0.1	TRACE
HEXANES PLUS.....	0.8	0.1	0.1
NITROGEN.....	0.3	0.8	1.1
OXYGEN.....	TRACE	0.0	0.0
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.3	0.5
HELIUM.....	TRACE	0.03	0.03
HEATING VALUE*.....	2046	1164	1132

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14813	INDEX SAMPLE 14814	INDEX SAMPLE 14870
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	GRADY	GRADY	GRANT
FIELD.....	WILDCAT	WILDCAT	WILDCAT
WELL NAME.....	SIMMS A NO. 1	SIMMS A NO. 1	OVERTON NO. 1
LOCATION.....	SEC. 9, T4N, R5W	SEC. 9, T4N, R5W	SEC. 8, T25N, R7W
OWNER.....	CITIES SERVICE OIL CO.	CITIES SERVICE OIL CO.	MAC OIL CO.
COMPLETED.....	08/12/76	08/12/76	02/10/76
SAMPLED.....	10/15/76	10/15/76	05/17/76
FORMATION.....	ORDO-BROMIDE 1ST	ORDO-BROMIDE 1ST	DEVIO-HUNTON
GEOLOGIC PROVINCE CODE.....	360	360	360
DEPTH, FEET.....	15297	15297	6112
WELLHEAD PRESSURE, PSIG.....	4353	4353	2200
OPEN FLOW, MCFD.....	13633	13633	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	87.6	88.0	73.5
ETHANE.....	7.0	6.7	8.0
PROPANE.....	2.8	2.8	7.0
N-BUTANE.....	0.7	0.7	4.4
ISOBUTANE.....	0.4	0.3	1.6
N-PENTANE.....	0.2	0.2	1.4
ISOPENTANE.....	0.2	0.2	1.2
CYCLOPENTANE.....	TRACE	TRACE	0.2
HEXANES PLUS.....	0.1	0.1	0.6
NITROGEN.....	0.4	0.4	2.0
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.6	0.5	0.0
HELIUM.....	0.02	0.02	0.06
HEATING VALUE*.....	1145	1140	1422

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14641	INDEX SAMPLE 14859	INDEX SAMPLE 14860
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	HARPER	HARPER	HARPER
FIELD.....	KIRBY	MAY N	MAY N
WELL NAME.....	RICHARDSON NO. 1	CRAWFORD NO. 1	CARLISLE NO. 1-36
LOCATION.....	SEC. 24, T27N, R22W	SEC. 12, T25N, R24W	SEC. 36, T26N, R25W
OWNER.....	NATIONAL COOPERATIVE REF.	HCM	HCM
COMPLETED.....	11/19/75	05/10/76	11/04/76
SAMPLED.....	04/23/76	11/12/76	11/12/76
FORMATION.....	PENN-MORROW	PENN-MORROW	PENN-MORROW
GEOLOGIC PROVINCE CODE...	360	360	360
DEPTH, FEET.....	5959	7030	7066
WELLHEAD PRESSURE, PSIG...	1987	1850	1227
OPEN FLOW, MCFD.....	9038	3800	2124
COMPONENT, MOLE PCT			
METHANE.....	87.3	90.8	84.3
ETHANE.....	4.7	4.7	6.9
PROPANE.....	3.1	2.0	4.7
N-BUTANE.....	1.1	0.6	1.5
ISOBUTANE.....	0.6	0.3	0.7
N-PENTANE.....	0.3	0.2	0.3
ISOPENTANE.....	0.3	0.3	0.3
CYCLOPENTANE.....	0.1	0.1	TRACE
HEXANES PLUS.....	0.3	0.2	0.1
NITROGEN.....	1.9	0.6	0.8
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.4	0.3
HELIUM.....	0.10	0.07	0.08
HEATING VALUE*.....	1151	1122	1204

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 112 14666	INDEX SAMPLE 113 14610	INDEX SAMPLE 114 14604
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	KINGFISHER	LATIMER	LEFLORE
FIELD.....	LINCOLN SW	KED OAK-NORRIS	PENO
WELL NAME.....	SMITH BROTHERS NO. 1	SMALLWOOD NO. 1	ARKANSAS VALLEY FARMS NO. 1
LOCATION.....	SEC. 6, T16N, R6W	SEC. 28, T6N, R21E	SEC. 34, T11N, R27E
OWNER.....	AN-SUN CORP.	MUSTANG PRODUCTION CO.	STEPHENS PRODUCTION CO.
COMPLETED.....	03/15/76	08/10/76	11/15/75
SAMPLED.....	04/29/76	10/09/76	02/23/76
FORMATION.....	PENN-RED FORK	PENN-SPIRO	PENN-CROMWELL
GEOLOGIC PROVINCE CODE...	360	345	345
DEPTH, FEET.....	6934	12181	5263
WELLHEAD PRESSURE, PSIG...	1635	4000	903
OPEN FLOW, MCFD.....	6597	20000	14000
COMPONENT, MOLE PCT			
METHANE.....	84.3	96.2	93.1
ETHANE.....	7.4	0.4	1.3
PROPANE.....	3.6	TRACE	0.1
N-BUTANE.....	1.4	0.0	0.0
ISOBUTANE.....	0.7	0.0	0.0
N-PENTANE.....	0.6	0.0	0.0
ISOPENTANE.....	0.5	0.0	0.0
CYCLOPENTANE.....	0.1	0.0	0.0
HEXANES PLUS.....	0.4	0.0	0.0
NITROGEN.....	0.7	0.2	0.5
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.9
HYDROGEN SULFIDE**.....	0.0	0.0	TRACE
CARBON DIOXIDE.....	0.2	6.1	4.0
HELIUM.....	0.04	0.04	0.05
HEATING VALUE.....	1222	951	972

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 115 14864	INDEX SAMPLE 116 14731	INDEX SAMPLE 117 14732
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	LEFLORE	MAJOR	MAJOR
FIELD.....	RED OAK-NORRIS	CAMPBELL N	CEDARDALE NE
WELL NAME.....	STOUT NO. 1-17	COY NO. 1	ANGELL NO. 1-36
LOCATION.....	SEC. 17, T7N, R23E	SEC. 1, T23N, R16W	SEC. 36, T23N, R16W
OWNER.....	SNEE AND EBERLY	W. B. OSBORN OPERATOR	JOSEPH I. O'NEILL JR.
COMPLETED.....	09/04/76	06/01/76	03/25/76
SAMPLED.....	11/30/76	08/12/76	08/13/76
FORMATION.....	PENN-SPIRU	MISS-	MISS-MERAMEC
GEOLOGIC PROVINCE CODE.....	345	360	360
DEPTH, FEET.....	11551	7860	7376
WELLHEAD PRESSURE, PSIG.....	NOT GIVEN	2225	2219
OPEN FLOW, MCFD.....	42199	4000	11200
COMPONENT, MOLE PCT			
METHANE.....	90.1	92.5	92.3
ETHANE.....	0.4	2.8	3.7
PROPANE.....	TRACE	1.0	1.3
N-BUTANE.....	0.1	0.5	0.4
ISOBUTANE.....	0.0	0.1	0.1
N-PENTANE.....	0.0	0.2	0.2
ISOPENTANE.....	0.0	0.2	0.2
CYCLOPENTANE.....	0.0	0.1	0.1
HEXANES PLUS.....	0.0	0.2	0.2
NITROGEN.....	0.8	1.7	1.2
OXYGEN.....	TRACE	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	8.4	0.8	0.3
HELIUM.....	0.08	0.05	0.04
HEATING VALUE*.....	923	1062	1083

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14861	INDEX SAMPLE 14821	INDEX SAMPLE 14862
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	OKMULGEE	OSAGE	OSAGE
FIELD.....	POLLYANNA S	CANDY CREEK	DRUM CREEK
WELL NAME.....	LEE ESTATE NO. 3	OAKLAND NO. 1A-4	HADDEN NO. 2
LOCATION.....	SEC. 11, T15N, R11E	SEC. 4, T24N, R12E	SEC. 15, T25N, R4E
OWNER.....	MCADAMS PIPE AND SUPPLY CO.	HELMERICH & PAYNE, INC.	INTERMOUNTAIN PETROLEUM CO.
COMPLETED.....	08/12/76	03/18/76	11/--/76
SAMPLED.....	11/22/76	10/28/76	11/--/76
FORMATION.....	PENN-DUTCHER	MISS-CHAT	MISS-CHAT
GEOLOGIC PROVINCE CODE...	355	355	355
DEPTH, FEET.....	2320	1720	3433
WELLHEAD PRESSURE, PSIG...	750	625	1140
OPEN FLOW, MCFD.....	12500	423	260000
COMPONENT, MOLE PCT			
METHANE.....	78.1	94.5	56.9
ETHANE.....	6.3	1.5	8.4
PROPANE.....	2.9	0.7	3.4
N-BUTANE.....	0.3	0.4	1.0
ISOBUTANE.....	0.4	0.2	0.5
N-PENTANE.....	TRACE	0.1	0.3
ISOPENTANE.....	0.2	0.1	0.2
CYCLOPENTANE.....	0.1	TRACE	0.1
HEXANES PLUS.....	0.1	0.1	0.2
NITROGEN.....	9.8	1.8	18.3
OXYGEN.....	1.1	0.0	0.0
ARGON.....	0.1	TRACE	TRACE
HYDROGEN.....	0.0	0.2	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.8	0.4	0.4
HELIUM.....	0.09	0.03	0.31
HEATING VALUE*.....	1020	1037	1002

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 121 14868	INDEX SAMPLE 122 14808	INDEX SAMPLE 123 14664
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	PITTSBURG	PITTSBURG	PITTSBURG
FIELD.....	ASHLAND S	FEATHERSTON NW	KIOWA W
WELL NAME.....	LANE NO. 1-28	ROBERTS NO. 1	ENNENGA NO. 1
LOCATION.....	SEC. 28, T4N, R12E	SEC. 3, T7N, R17E	SEC. 8, T3N, R13E
OWNER.....	CONTINENTAL OIL CO.	POTTS STEPHENSON EXPL. CO.	SOUTHERN UNION PROD. CO.
COMPLETED.....	09/02/76	05/26/76	05/20/75
SAMPLED.....	12/11/76	10/12/76	04/23/76
FORMATION.....	PENN-HARTSHORNE	PENN-HARTSHORNE	PENN-WAPANUCKA
GEOLOGIC PROVINCE CODE.....	345	345	345
DEPTH, FEET.....	3401	2502	9422
WELLHEAD PRESSURE, PSIG.....	495	585	2407
OPEN FLOW, MCFO.....	4200	3900	13931
COMPONENT, MOLE PCT			
METHANE.....	91.2	94.6	95.6
ETHANE.....	3.6	3.8	0.7
PROPANE.....	1.7	0.7	0.1
N-BUTANE.....	0.4	0.1	TRACE
ISOBUTANE.....	0.3	TRACE	TRACE
N-PENTANE.....	TRACE	0.0	TRACE
ISOPENTANE.....	0.1	0.1	TRACE
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	TRACE	TRACE	TRACE
NITROGEN.....	2.1	0.6	0.4
OXYGEN.....	TRACE	TRACE	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.4	TRACE	3.1
HELIUM.....	0.13	0.04	0.05
HEATING VALUE*.....	1060	1052	984

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14806	INDEX SAMPLE 14702	INDEX SAMPLE 14612
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	ROGER MILLS	SEMINOLE	STEPHENS
FIELD.....	NOT GIVEN	HOLDENVILLE	PALACINE
WELL NAME.....	LESTER UNIT NO. 1	WALLACE NO. 1	HARLEY NO. 1
LOCATION.....	SEC. 9, T13N, R24W	SEC. 30, T6N, R8E	SEC. 9, T2S, R6W
OWNER.....	HELMERICH & PAYNE, INC.	FRANK W. COLE	WOODS PETROLEUM CORP.
COMPLETED.....	08/06/76	12/02/75	10/21/75
SAMPLED.....	10/12/76	06/10/76	03/10/76
FORMATION.....	PENN-MORROW	MISS-JEFFERSON	PENN-HOXBAR
GEOLOGIC PROVINCE CODE...	360	355	350
DEPTH, FEET.....	15086	5171	2745
WELLHEAD PRESSURE, PSIG...	12000	100	936
OPEN FLOW, MCFD.....	10400	NOT GIVEN	8156
COMPONENT, MOLE PCT			
METHANE.....	97.1	89.2	83.4
ETHANE.....	0.7	3.5	6.3
PROPANE.....	0.1	1.4	3.0
N-BUTANE.....	0.0	0.3	0.9
ISOBUTANE.....	0.0	0.3	0.7
N-PENTANE.....	0.0	0.1	0.1
ISOPENTANE.....	0.0	0.2	0.3
CYCLOPENTANE.....	0.0	0.1	TRACE
HEXANES PLUS.....	0.0	0.1	0.1
NITROGEN.....	0.3	4.6	4.8
OXYGEN.....	TRACE	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.7	0.2	0.2
HELIUM.....	0.02	0.12	0.07
HEATING VALUE*.....	999	1045	1112

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX 127 SAMPLE 14647	INDEX 128 SAMPLE 14649	INDEX 129 SAMPLE 14644
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	TEXAS	TEXAS	TEXAS
FIELD.....	HITCHLAND W	HITCHLAND W	HUGOTON, OKLAHOMA
WELL NAME.....	HITCH NO. B-2	LES NO. 2	JAN NO. 1
LOCATION.....	SEC. 34, T1N, R15ECM	SEC. 35, T1N, R15ECM	SEC. 24, T1N, R15ECM
OWNER.....	PHILLIPS PETROLEUM CO.	PHILLIPS PETROLEUM CO.	PHILLIPS PETROLEUM CO.
COMPLETED.....	05/17/60	08/18/59	03/13/46
SAMPLED.....	04/26/76	04/26/76	04/26/76
FORMATION.....	PENN-MORROW L	PENN-MORROW	PERM-WICHITA-ALBANY
GEOLOGIC PROVINCE CODE...	360	360	360
DEPTH, FEET.....	6783	6752	2535
WELLHEAD PRESSURE, PSIG...	520	728	153
OPEN FLOW, MCFD.....	409	465	169
COMPONENT, MOLE PCT			
METHANE.....	82.5	82.5	75.5
ETHANE.....	5.0	4.8	6.4
PROPANE.....	4.6	4.3	3.6
N-BUTANE.....	1.9	1.8	1.0
ISOBUTANE.....	0.5	0.6	0.4
N-PENTANE.....	0.5	0.4	0.2
ISOPENTANE.....	0.7	0.8	0.3
CYCLOPENTANE.....	0.1	0.1	TRACE
HEXANES PLUS.....	0.3	0.3	0.1
NITROGEN.....	3.7	4.2	12.0
OXYGEN.....	TRACE	0.2	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.2	TRACE
HELIUM.....	0.17	0.16	0.40
HEATING VALUE*.....	1196	1183	1047

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14645	INDEX SAMPLE 14646	INDEX SAMPLE 14648
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	TEXAS	TEXAS	TEXAS
FIELD.....	HUGOTON, OKLAHOMA	HUGOTON, OKLAHOMA	HUGOTON, OKLAHOMA
WELL NAME.....	LES NO. 1	HITCH NO. 8-1	TUNIS NO. 1
LOCATION.....	SEC. 35, 11N, R15ECM	SEC. 34, 11N, R15ECM	SEC. 23, 11N, R15ECM
OWNER.....	PHILLIPS PETROLEUM CO.	PHILLIPS PETROLEUM CO.	PHILLIPS PETROLEUM CO.
COMPLETED.....	08/08/45	02/03/45	07/23/47
SAMPLED.....	04/26/76	04/26/76	04/26/76
FORMATION.....	PERM-WICHITA-ALBANY	PERM-WICHITA-ALBANY	PERM-WICHITA-ALBANY
GEOLOGIC PROVINCE.....	360	360	360
DEPTH, FEET.....	2665	2751	2530
WELLHEAD PRESSURE, PSIG.....	143	139	159
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	189
COMPONENT, MOLE PCT			
METHANE.....	75.6	75.7	75.4
ETHANE.....	6.4	6.4	6.3
PROPANE.....	3.6	3.6	3.6
N-BUTANE.....	1.0	1.1	0.9
ISOBUTANE.....	0.4	0.4	0.5
N-PENTANE.....	0.2	0.2	0.2
ISOPENTANE.....	0.3	0.2	0.3
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	11.9	11.5	12.3
OXYGEN.....	TRACE	0.0	TRACE
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	TRACE	TRACE
HELIUM.....	0.39	0.41	0.40
HEATING VALUE*.....	1048	1053	1044

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14663	INDEX SAMPLE 14863	INDEX SAMPLE 14567
STATE.....	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY.....	TEXAS	TEXAS	TEXAS
FIELD.....	HUGOTON, OKLAHOMA	MOUSER W	TEXHOMA N
WELL NAME.....	SEGAR NO. 1	HAMPY A NO. 2	HERMIT NO. 2
LOCATION.....	SEC. 36, T1N, R15ECM	SEC. 23, T5N, R17ECM	SEC. 29, T2N, R12ECM
OWNER.....	PHILLIPS PETROLEUM CO.	CITIES SERVICE OIL CO.	PHILLIPS PETROLEUM CO.
COMPLETED.....	08/03/45	09/10/76	10/30/75
SAMPLED.....	04/27/76	11/30/76	01/23/76
FORMATION.....	PERM-WICHITA-ALBANY	PENN-MOKROW	PENN-MOKROW
GEOLOGIC PROVINCE CODE...	360	360	360
DEPTH, FEET.....	2660	6120	6080
WELLHEAD PRESSURE, PSIG...	171	1191	572
OPEN FLOW, MCFD.....	449	89625	4190
COMPONENT, MOLE PCT			
METHANE.....	74.9	82.7	89.0
ETHANE.....	6.3	6.4	5.3
PROPANE.....	3.7	4.3	2.3
N-BUTANE.....	1.0	1.1	0.6
ISOBUTANE.....	0.5	0.4	0.3
N-PENTANE.....	0.2	0.2	0.2
ISOPENTANE.....	0.2	0.3	0.1
CYCLOPENTANE.....	TRACE	0.1	TRACE
HEXANES PLUS.....	0.1	0.2	0.1
NITROGEN.....	12.6	4.0	1.6
OXYGEN.....	0.0	0.0	TRACE
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	0.3	0.2
HELIUM.....	0.43	0.17	0.10
HEATING VALUE*.....	1040	1150	1104

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14848	INDEX SAMPLE 14680	INDEX SAMPLE 14835
STATE.....	OKLAHOMA	OKLAHOMA	PENNSYLVANIA
COUNTY.....	WOODS	WOODWARD	VENANGO
FIELD.....	FAIRVALLEY	SHAKON W	VENANGO
WELL NAME.....	MC GILL NO. 1-16	CLARK NO. 1	SMITH NO. 4872
LOCATION.....	SEC. 16, T26N, R17W	SEC. 15, T21N, R20W	NOT GIVEN
OWNER.....	TUTHILL & BARBEE	PAN EASTERN EXPLORATION CO.	PEOPLES NATURAL GAS CO.
COMPLETED.....	NOT GIVEN	05/21/75	NOT GIVEN
SAMPLED.....	11/04/76	05/27/76	10/27/76
FORMATION.....	PENN-RED FORK	PENN-MORROW	SILU-CLINTON & MEDINA
GEOLOGIC PROVINCE CODE...	360	360	160
DEPTH, FEET.....	NOT GIVEN	9042	NOT GIVEN
WELLHEAD PRESSURE, PSIG...	2000	3218	490
OPEN FLOW, MCFD.....	4000	4813	250
COMPONENT, MOLE PCT			
METHANE.....	90.0	85.3	91.5
ETHANE.....	3.1	3.1	5.1
PROPANE.....	1.1	1.1	0.8
N-BUTANE.....	0.3	0.3	0.2
ISOBUTANE.....	0.2	0.2	0.2
N-PENTANE.....	TRACE	TRACE	TRACE
ISOPENTANE.....	0.1	0.1	TRACE
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	TRACE	0.1	0.1
NITROGEN.....	3.8	7.3	2.0
OXYGEN.....	0.7	1.8	0.0
ARGON.....	TRACE	0.1	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.6	0.7	TRACE
HELIUM.....	0.05	0.05	0.07
HEATING VALUE*.....	1017	974	1058

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 139 14853	INDEX SAMPLE 140 14560	INDEX SAMPLE 141 14559
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	ANGELINA	AUSTIN	AUSTIN
FIELD.....	CAMERON-HAMILL	NELSONVILLE	NELSONVILLE N
WELL NAME.....	CAMERON MINERAL NO. B-2	FRANK SUROVIK NO. 1	LEONARD SCHROEDER NO. 1
LOCATION.....	VICENTI MICHELLI SUR. A-29	S. F. AUSTIN LEAGUE, A-4	STEPHEN F. AUSTIN GRANT, A-4
OWNER.....	CLAUD B. HAMILL	PRAIRIE PRODUCING CO.	PRAIRIE PRODUCING CO.
COMPLETED.....	04/04/75	02/19/74	04/12/74
SAMPLED.....	11/07/76	01/16/76	01/16/76
FORMATION.....	CRET-GLEN ROSE	EOCE-WILCOX	EOCE-WILCOX
GEOLOGIC PROVINCE CODE...	260	220	220
DEPTH, FEET.....	7481	9818	8392
WELLHEAD PRESSURE, PSIG...	1300	3200	261
OPEN FLOW, MCFO.....	3000	15000	16750
COMPONENT, MOLE PCT			
METHANE.....	94.4	77.2	80.6
ETHANE.....	1.4	7.6	6.1
PROPANE.....	0.6	6.6	6.0
N-BUTANE.....	0.3	1.9	1.5
ISOBUTANE.....	0.1	1.5	1.9
N-PENTANE.....	0.2	0.3	0.0
ISOPENTANE.....	0.1	0.9	0.9
CYCLOPENTANE.....	0.1	0.1	TRACE
HEXANES PLUS.....	0.2	0.3	0.0
NITROGEN.....	2.1	0.8	1.1
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	0.0	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.6	0.0	0.0
HELIUM.....	0.02	2.9	1.8
HEATING VALUE.....	1037	0.01	0.01
		1274	1234

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 142 14869	INDEX SAMPLE 143 14870	INDEX SAMPLE 144 14622
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	BRAZORIA	BRAZORIA	BROOKS
FIELD.....	ALVIN CITY	KATILSNK MOUND W	FLOWELLA
WELL NAME.....	TRIANGLE MOORE NO. 1	SHELL POINT UNIT NO. 1	NEWMONT NO. 1
LOCATION.....	HOOPER & WADE SUR., A-422	PERKY & AUSTIN SUR. A-106	SEC. 14, LOMA BLANCO GNT.
OWNER.....	MCCORMICK OIL & GAS CORP.	GENERAL CRUDE OIL CO.	CROWN CENTRAL PETR. CORP.
COMPLETED.....	11/06/75	12/14/74	05/17/74
SAMPLED.....	12/--/76	12/14/76	03/20/76
FORMATION.....	OLIG-FR10	OLIG-FR10 SCHENCK	OLIG-VICKSBURG
GEOLOGIC PROVINCE CODE...	220	220	220
DEPTH, FEET.....	9983	14128	10220
WELLHEAD PRESSURE, PSIG...	3336	6500	5889
OPEN FLOW, MCFD.....	11928	6092	10000
COMPONENT, MOLE PCT			
METHANE.....	95.2	84.0	88.5
ETHANE.....	2.4	9.2	6.1
PROPANE.....	0.7	2.0	2.3
N-BUTANE.....	0.2	0.4	0.4
ISOBUTANE.....	0.1	0.4	0.7
N-PENTANE.....	TRACE	0.1	0.2
ISOPENTANE.....	0.1	0.1	0.1
CYCLOPENTANE.....	TRACE	0.1	TRACE
HEXANES PLUS.....	0.1	0.2	0.2
NITROGEN.....	0.3	0.7	0.5
OXYGEN.....	0.0	0.2	0.0
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.8	2.6	1.0
HELIUM.....	TRACE	TRACE	TRACE
HEATING VALUE**.....	1045	1117	1126

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14756	INDEX SAMPLE 14800	INDEX SAMPLE 14748
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	CALLAHAN	CASS	COLORADO
FIELD.....	PUTNAM NE	RAMBO N	ROSS-BENNER
WELL NAME.....	YARBROUGH NO. 1	RAMBO NO. 1	ROSS-BENNER NO. 1-T
LOCATION.....	SEC. 3197, T4S, R4E, S408	JESSE DINSON SUR. A-305	SAGMG SUR. 15, A-877
OWNER.....	DALLAS PRODUCTION CO.	SOUTHLAND ROYALTY CO.	PETRO-LEWIS CORP.
COMPLETED.....	03/16/75	06/01/75	02/19/73
SAMPLED.....	09/14/76	10/08/76	05/24/76
FORMATION.....	PENN-CONGLOMERATE	JURA-SMACKOVER	OLIG-FRIO
GEOLOGIC PROVINCE CODE.....	425	260	220
DEPTH, FEET.....	3952	10500	3180
WELLHEAD PRESSURE, PSIG.....	1535	4500	860
OPEN FLOW, MCFU.....	2700	3800	18000
COMPONENT, MOLE PCT			
METHANE.....	72.1	79.9	98.8
ETHANE.....	10.1	5.4	0.1
PROPANE.....	4.4	1.2	TRACE
N-BUTANE.....	1.2	0.6	0.0
ISOBUTANE.....	0.4	0.5	0.0
N-PENTANE.....	0.3	0.2	0.0
ISOPENTANE.....	0.2	0.2	0.0
CYCLOPENTANE.....	0.1	TRACE	0.0
HEXANES PLUS.....	0.1	0.2	0.0
NITROGEN.....	10.6	12.2	1.0
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	1.5	0.1
HELIUM.....	0.34	0.04	0.01
HEATING VALUE*.....	1110	966	1003

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14749	INDEX SAMPLE 14750	INDEX SAMPLE 150 14876
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	COLORADO	COLORADO	COTTE
FIELD.....	ROSS-BENNER	ROSS-BENNER	STESCOTT
WELL NAME.....	ROSS-BENNER NO. 1-C	ROSS-BENNER NO. 5	T. B. HAVINS NO. 1
LOCATION.....	SA&MG SUR. 15, A-877	SA&MG SUR. 15, A-877	G. M. HUFF SUR.
OWNER.....	PETRO-LEWIS CORP.	PETRO-LEWIS CORP.	BASS ENTERPRISES PROD. CO.
COMPLETED.....	02/19/73	06/25/74	02/28/76
SAMPLED.....	05/24/76	05/24/76	12/21/76
FORMATION.....	MIOC-	MIOC-CATAHOULA	PENN-ATOKA
GEOLOGIC PROVINCE CODE...	220	220	435
DEPTH, FEET.....	2100	2100	6188
WELLHEAD PRESSURE, PSIG...	801	801	1775
OPEN FLOW, MCFD.....	3800	3800	5000
COMPONENT, MOLE PCT			
METHANE.....	99.0	98.3	74.2
ETHANE.....	0.1	0.1	10.0
PROPANE.....	TRACE	TRACE	6.2
N-BUTANE.....	0.0	0.0	2.0
ISOBUTANE.....	0.0	0.0	0.9
N-PENTANE.....	0.0	0.0	0.4
ISOPENTANE.....	0.0	0.0	0.6
CYCLOPENTANE.....	0.0	0.0	0.1
HEXANES PLUS.....	0.0	0.0	0.2
NITROGEN.....	0.8	1.3	5.3
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.3	0.1
HELIUM.....	0.01	0.01	0.13
HEATING VALUE*.....	1005	998	1246

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14727	INDEX SAMPLE 14577	INDEX SAMPLE 14578
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	CROCKETT	GOLIAD	GOLIAD
FIELD.....	UNIVERSITY 30-32	CABELZA CREEK	CABELZA CREEK
WELL NAME.....	UNIVERSITY 31-5 NO. 1	PETTUS UNIT NO. 44	PETTUS UNIT NO. 44
LOCATION.....	SEC. 5, BLK. 31, UNIV. LANDS SUR.	SEBASTINA VELA SUR., A-337	SEBASTINA VELA SUR., A-337
OWNER.....	MCNORAN EXPLORATION CO.	CONTINENTAL OIL CO.	CONTINENTAL OIL CO.
COMPLETED.....	05/05/75	08/29/74	08/29/74
SAMPLED.....	07/01/76	02/06/76	02/06/76
FORMATION.....	SILU-FUSSELMAN	EOCE-PETTUS	EOCE-YEGUA
GEOLOGIC PROVINCE CODE...	430	220	220
DEPTH, FEET.....	8174	4294	4903
WELLHEAD PRESSURE, PSIG...	1190	883	1623
OPEN FLOW, MCFD.....	125	2080	3150
COMPONENT, MOLE PCT			
METHANE.....	90.6	89.7	89.4
ETHANE.....	4.8	5.7	5.8
PROPANE.....	1.4	2.3	2.3
N-BUTANE.....	0.4	0.4	0.4
ISOBUTANE.....	0.2	0.7	0.7
N-PENTANE.....	0.1	0.1	0.1
ISOPENTANE.....	0.1	0.2	0.2
CYCLOPENTANE.....	0.1	0.1	0.1
HEXANES PLUS.....	0.1	0.2	0.2
NITROGEN.....	1.5	0.5	0.5
OXYGEN.....	0.0	TRACE	0.1
ARGON.....	TRACE	0.0	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.7	0.2	0.2
HELIUM.....	0.06	TRACE	0.01
HEATING VALUE.....	1078	1134	1133

* CALCULATED GROSS BTU PER CU FT. DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14655	INDEX SAMPLE 14651	INDEX SAMPLE 14653
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	HANSFORD	HANSFORD	HANSFORD
FIELD.....	HITCHLAND	HITCHLAND W	HITCHLAND W
WELL NAME.....	HITCH NO. E-2	HITCH NO. S-2	HITCH NO. F-2
LOCATION.....	SEC. 10, BLK. 1, PSL SUR.	SEC. 58, BLK. P, H&GN SUR.	SEC. 9, BLK. 1, PSL SUR.
OWNER.....	PHILLIPS PETROLEUM CO.	PHILLIPS PETROLEUM CO.	PHILLIPS PETROLEUM CO.
COMPLETED.....	02/24/59	09/01/59	06/03/59
SAMPLED.....	04/27/76	04/27/76	04/27/76
FORMATION.....	PENN-MORROW L	PENN-COLLIER	PENN-MORROW L
GEOLOGIC PROVINCE CODE.....	360	360	360
DEPTH, FEET.....	6933	4595	6832
WELLHEAD PRESSURE, PSIG.....	530	270	760
OPEN FLOW, MCFD.....	360	68	1275
COMPONENT, MOLE PCT			
METHANE.....	82.2	82.4	82.4
ETHANE.....	4.9	6.6	5.0
PROPANE.....	4.7	4.0	4.6
N-BUTANE.....	1.9	1.2	1.9
ISOBUTANE.....	0.6	0.4	0.6
N-PENTANE.....	0.5	0.3	0.5
ISOPENTANE.....	0.8	0.3	0.7
CYCLOPENTANE.....	0.1	0.1	0.1
HEXANES PLUS.....	0.4	0.2	0.3
NITROGEN.....	3.6	4.3	3.6
OXYGEN.....	0.0	0.0	TRACE
ARGON.....	0.0	0.0	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.1	0.2
HELIUM.....	0.14	0.17	0.16
HEATING VALUE*.....	1207	1150	1198

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14657	INDEX SAMPLE 14650	INDEX SAMPLE 14652
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	HANSFORD	HANSFORD	HANSFORD
FIELD.....	HITCHLAND W	HUGOTON, TEXAS	HUGOTON, TEXAS
WELL NAME.....	HITCH NO. D-2	HITCH NO. E-1	EDGAR NO. 1
LOCATION.....	SEC. 1, BLK. P, H&GN SUR.	SEC. 10, BLK. 1, PFSL SUR.	SEC. 30, BLK. P, H&GN SUR.
OWNER.....	PHILLIPS PETROLEUM CO.	PHILLIPS PETROLEUM CO.	PHILLIPS PETROLEUM CO.
COMPLETED.....	09/18/59	08/13/45	10/13/45
SAMPLED.....	04/27/76	04/27/76	04/27/76
FORMATION.....	PENN-MORROW L	PERM-WICHITA-ALBANY	PERM-WICHITA-ALBANY
GEOLOGIC PROVINCE CODE.....	360	360	360
DEPTH, FEET.....	6747	2620	2768
WELLHEAD PRESSURE, PSIG.....	575	107	83
OPEN FLOW, MCFD.....	753	266	250
COMPONENT, MOLE PCI			
METHANE.....	82.5	75.4	75.2
ETHANE.....	5.0	6.4	6.4
PROPANE.....	4.4	5.7	3.7
N-BUTANE.....	1.8	1.1	1.0
ISOBUTANE.....	0.6	0.4	0.5
N-PENTANE.....	0.3	0.2	0.2
ISOPENTANE.....	0.9	0.2	0.3
CYCLOPENTANE.....	0.1	TRACE	TRACE
HEXANES PLUS.....	0.3	0.1	0.1
NITROGEN.....	3.7	11.8	12.1
OXYGEN.....	TRACE	0.0	TRACE
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	TRACE	TRACE
HELIUM.....	0.16	0.42	0.41
HEATING VALUE*.....	1191	1047	1049

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX 160 SAMPLE 14654	INDEX 161 SAMPLE 14656	INDEX 162 SAMPLE 14658
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	HANSFORD	HANSFORD	HANSFORD
FIELD.....	HUGOTON, TEXAS	HUGOTON, TEXAS	HUGOTON, TEXAS
WELL NAME.....	HITCH NO. 1	HITCH NO. S-1	HITCH NO. A-1
LOCATION.....	SEC. 62, BLK. P, H&GN SUR.	SEC. 58, BLK. P, H&GN SUR.	SEC. 289, BLK. 2, GH&H SUR.
OWNER.....	PHILLIPS PETROLEUM CO.	PHILLIPS PETROLEUM CO.	PHILLIPS PETROLEUM CO.
COMPLETED.....	07/17/45	08/31/53	11/17/44
SAMPLED.....	04/27/76	04/27/76	04/27/76
FORMATION.....	PERM-WICHITA-ALBANY	PERM-WICHITA-ALBANY	PERM-WICHITA-ALBANY
GEOLOGIC PROVINCE CODE...	360	360	360
DEPTH, FEET.....	2792	2825	2816
WELLHEAD PRESSURE, PSIG...	102	93	121
OPEN FLOW, MCFD.....	198	136	362
COMPONENT, MOLE PCT			
METHANE.....	73.5	73.3	75.2
ETHANE.....	6.1	6.2	6.5
PROPANE.....	3.5	3.6	4.0
N-BUTANE.....	1.0	1.0	1.2
ISOBUTANE.....	0.4	0.4	0.5
N-PENTANE.....	0.2	0.2	0.2
ISOPENTANE.....	0.2	0.2	0.3
CYCLOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	14.3	14.3	11.4
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.1	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	TRACE	TRACE
HELIUM.....	0.53	0.53	0.40
HEATING VALUE*.....	1014	1016	1070

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14659	INDEX SAMPLE 14660	INDEX SAMPLE 14661
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	HANSFORD	HANSFORD	HANSFORD
FIELD.....	HUGOTON, TEXAS	HUGOTON, TEXAS	HUGOTON, TEXAS
WELL NAME.....	HITCH NO. 0-1	HITCH NO. C-1	SAME NO. 1
LOCATION.....	SEC. 1, BLK. P, H&GN SUR.	SEC. 8, BLK. 1, PFSL SUR.	SEC. 11, BLK. 1, PSL SUR.
OWNER.....	PHILLIPS PETROLEUM CO.	PHILLIPS PETROLEUM CO.	PHILLIPS PETROLEUM CO.
COMPLETED.....	01/24/45	02/12/45	09/21/45
SAMPLED.....	04/27/76	04/27/76	04/27/76
FORMATION.....	PERM-WICHITA-ALBANY	PERM-WICHITA-ALBANY	PERM-WICHITA-ALBANY
GEOLOGIC PROVINCE CODE...	360	360	360
DEPTH, FEET.....	2647	2770	2745
WELLHEAD PRESSURE, PSIG...	98	108	103
OPEN FLOW, MCFD.....	150	301	481
COMPONENT, MOLE PCT			
METHANE.....	75.4	75.5	75.6
ETHANE.....	6.5	6.3	6.3
PROPANE.....	3.9	3.7	3.7
N-BUTANE.....	1.2	1.0	1.0
ISOBUTANE.....	0.5	0.4	0.5
N-PENTANE.....	0.3	0.2	0.2
ISOPENTANE.....	0.3	0.3	0.2
CYCLOPENTANE.....	0.1	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	11.4	12.1	11.9
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	TRACE	TRACE
HELIUM.....	0.41	0.41	0.43
HEATING VALUE.....	1073	1047	1047

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14662	INDEX SAMPLE 14553	INDEX SAMPLE 14866
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	HANSFORD	HARDIN	MEMPHILL
FIELD.....	HUGOTON, TEXAS	BLECH CREEK	HIGGINS S
WELL NAME.....	HITCH NO. F-1	ARCO FEE SEC. 189 NO. 1	WS&EC JONES ESTATE NO. 1
LOCATION.....	SEC. 9, BLK. 1, PSL SUR.	H&TC KK CO. SUR. A-500	SEC. 4, BLK. 43, H&TC SUR.
OWNER.....	PHILLIPS PETROLEUM CO.	ROBERT MOSBACHER	ENSERCH EXPLORATION, INC.
COMPLETED.....	05/26/45	11/19/73	06/16/75
SAMPLED.....	04/27/76	12/18/75	12/07/76
FORMATION.....	PERM-WICHITA-ALBANY	EOCL-WILCOX	PENN-MORROW
GEOLOGIC PROVINCE CODE.....	360	220	560
DEPTH, FEET.....	2769	9388	11864
WELLHEAD PRESSURE, PSIG.....	120	2749	4480
OPEN FLOW, MCFD.....	408	4650	5000
COMPONENT, MOLE PCT			
METHANE.....	75.6	81.0	93.5
ETHANE.....	6.4	7.7	3.0
PROPANE.....	3.8	6.0	0.6
N-BUTANE.....	1.0	1.2	0.2
ISOBUTANE.....	0.5	1.3	0.1
N-PENTANE.....	0.2	0.2	0.1
ISOPENTANE.....	0.2	0.4	0.1
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	11.6	0.7	0.3
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	0.0	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	1.4	1.8
HELIUM.....	0.40	0.01	0.03
HEATING VALUE.....	1052	1229	1040

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14807	INDEX SAMPLE 14581	INDEX SAMPLE 14799
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	HEMPHILL	HIDALGO	HOUSTON
FIELD.....	VIKING	MONTE CRISTO	DECKER SWITCH
WELL NAME.....	SUMPTER "10" NO. 1	HAMMAN RANCH NO. 5	W. A. HOLCOMB NO. 1
LOCATION.....	SEC.10,BLK.Z-1,ACH&B&W&W SUR	SAN SALVADOR DEL TULE GRANT	REFUGIO VALENZUELA SUR.
OWNER.....	HNG OIL CO.	SHELL OIL CO.	TEXAS CRUDE OIL CO., INC.
COMPLETED.....	NOT GIVEN	02/27/74	10/30/74
SAMPLED.....	10/--/76	02/07/76	10/07/76
FORMATION.....	NOT GIVEN	OLIG-VICKSBURG	CRET-PLTTIT
GEOLOGIC PROVINCE CODE...	360	220	260
DEPTH, FEET.....	NOT GIVEN	9061	10413
WELLHEAD PRESSURE, PSIG...	NOT GIVEN	6425	5155
OPEN FLOW, MCFD.....	NOT GIVEN	12700	7729
COMPONENT, MOLE PCT			
METHANE.....	97.2	97.5	97.2
ETHANE.....	0.7	1.5	0.2
PROPANE.....	0.1	0.4	TRACE
N-BUTANE.....	0.0	0.1	0.0
ISOBUTANE.....	0.0	0.2	0.0
N-PENTANE.....	0.0	TRACE	0.0
ISOPENTANE.....	0.0	TRACE	0.0
CYCLOPENTANE.....	0.0	TRACE	0.0
HEXANES PLUS.....	0.0	TRACE	0.0
NITROGEN.....	0.2	0.3	0.7
OXYGEN.....	0.0	0.0	TRACE
ARGON.....	TRACE	0.0	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.8	TRACE	1.7
HELIUM.....	0.02	TRACE	0.01
HEATING VALUE*.....	1000	1035	988

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 172 14751	INDEX SAMPLE 173 14576	INDEX SAMPLE 174 14615
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	JACKSON	JACKSON	JEFFERSON
FIELD.....	HARMOND	WEST RANCH	STOWELL
WELL NAME.....	MAGGIE BRANCH NO. 26-H	WEST RANCH UNIT 2 NO. 1	W. M. STOEGER NO. 2
LOCATION.....	G.F. & M. I. SIMONS SUR., A-291	R. MOSQUEZ GR. A-59	E. LOPEZ SUR. A-37
OWNER.....	INTERCOASTAL OPERATING CO.	MOBIL OIL CO.	HNG OIL CO.
COMPLETED.....	07/07/73	12/11/73	08/14/74
SAMPLED.....	09/07/76	02/02/76	03/19/76
FORMATION.....	OLIG-FRIO	MIOC-H	OLIG-FRIO
GEOLOGIC PROVINCE CODE...	220	220	220
DEPTH, FEET.....	6490	4175	8104
WELLHEAD PRESSURE, PSIG...	900	1360	2730
OPEN FLOW, MCFD.....	1200	2200	2930
COMPONENT, MOLE PCT			
METHANE.....	94.1	98.9	94.6
ETHANE.....	3.1	0.1	3.2
PROPANE.....	1.1	TRACE	0.8
N-BUTANE.....	0.4	0.0	0.2
ISOBUTANE.....	0.3	0.0	0.3
N-PENTANE.....	0.1	0.0	TRACE
ISOPENTANE.....	0.1	0.0	0.1
CYCLOPENTANE.....	0.1	0.0	TRACE
HEXANES PLUS.....	0.1	0.0	0.1
NITROGEN.....	0.3	0.8	0.5
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.3	0.1	0.3
HELIUM.....	TRACE	0.01	TRACE
HEATING VALUE*.....	1078	1004	1063

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14590	INDEX SAMPLE 14570	INDEX SAMPLE 14568
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	JIM WELLS	KARNES	LAVACA
FIELD.....	TOM GRAHAM	KENEY SW	BORCHERS
WELL NAME.....	KULCHAK NO. 1	MCDOWELL NO. 1	WILLIAM BORCHERS NO. 4
LOCATION.....	LA VACA GRANT A-166	CARLOS MARTINEZ GRANT A-6	A. ELGIN ABSTRACT 156
OWNER.....	CAYMAN EXPLORATION CORP.	GENERAL CRUDE OIL CO.	MURPHY H. BAXTER
COMPLETED.....	02/05/74	05/10/74	01/30/75
SAMPLED.....	02/24/76	01/27/76	01/28/76
FORMATION.....	OLIG-FR10	CKET-SL10	MIOC-BORCHERS
GEOLOGIC PROVINCE CODE...	220	220	220
DEPTH, FEET.....	5136	15655	1900
WELLHEAD PRESSURE, PSIG...	870	11010	816
OPEN FLOW, MCFD.....	2650	16500	270
COMPONENT, MOLE PCT			
METHANE.....	93.1	91.5	97.8
ETHANE.....	3.5	0.1	0.1
PROPANE.....	1.5	TRACE	TRACE
N-BUTANE.....	0.4	0.0	0.0
ISOBUTANE.....	0.4	0.0	0.0
N-PENTANE.....	TRACE	0.0	0.0
ISOPENTANE.....	0.3	0.0	0.0
CYCLOPENTANE.....	TRACE	0.0	0.0
HEXANES PLUS.....	0.1	0.0	0.0
NITROGEN.....	0.5	0.9	0.0
OXYGEN.....	0.0	0.0	1.8
ARGON.....	0.0	0.0	0.0
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	7.4	0.4
HELIUM.....	TRACE	0.01	0.01
HEATING VALUE*.....	1090	929	993

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14775	INDEX SAMPLE 14872	INDEX SAMPLE 14871
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	LEON	LIBERTY	LIBERTY
FIELD.....	CENTERVILLE N	HULL S	KAYWOOD W
WELL NAME.....	T. R. RODELL NO. 1	HANNAH CARR NO. 1	MALLET UNIT NO. 1
LOCATION.....	B. CARAKER SUR.	NICHOLAS LYNCH SUR. A-308	WILLIAM FIELDS SUR. A-194
OWNER.....	LAKE RONEL OIL CO.	GENERAL CRUDE OIL CO.	GENERAL CRUDE OIL CO.
COMPLETED.....	06/04/76	10/16/76	06/01/75
SAMPLED.....	09/--/76	12/14/76	12/14/76
FORMATION.....	CRET-PEITIT	EOCE-YEGUA	EOCE-COOK MOUNTAIN
GEOLOGIC PROVINCE CODE...	260	220	220
DEPTH, FEET.....	10151	8976	12002
WELLHEAD PRESSURE, PSIG...	4515	3850	4500
OPEN FLOW, MCFD.....	7600	21669	6800
COMPONENT, MOLE PCT			
METHANE.....	94.7	89.9	89.9
ETHANE.....	1.6	5.7	5.3
PROPANE.....	0.5	2.1	1.9
N-BUTANE.....	0.2	0.5	0.5
ISOBUTANE.....	0.1	0.4	0.4
N-PENTANE.....	0.1	0.2	0.1
ISOPENTANE.....	0.1	0.2	0.2
CYCLOPENTANE.....	TRACE	0.1	TRACE
HEXANES PLUS.....	0.1	0.2	0.2
NITROGEN.....	0.5	0.2	0.3
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	2.2	0.6	1.2
HELIUM.....	0.01	TRACE	TRACE
HEATING VALUE*.....	1025	1129	1108

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14588	INDEX SAMPLE 14592	INDEX SAMPLE 14621
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	MC MULLEN	NUECES	PALO PINTO
FIELD.....	BRAZIL	BISHOP W	MINERAL WELLS, BIG SALINE
WELL NAME.....	EARL BAKER NO. 5	W. BISHOP G.U. NO.1 NO.1	HART NO. B-2
LOCATION.....	M. F. LOWE SUR. 6, A-886	PALO ALTO GRANT, A-116	2 MI. SE ORAN
OWNER.....	ATLANTIC RICHFIELD CO.	HOUSTON OIL & MINERALS CORP.	DALLAS PRODUCTION, INC.
COMPLETED.....	10/14/74	NOT GIVEN	05/--/75
SAMPLED.....	02/23/76	02/24/76	03/23/76
FORMATION.....	EUGE-WILCOX	OLIG-VICKSBURG	PENN-CONGLOMERATE
GEOLOGIC PROVINCE CODE...	220	220	425
DEPTH, FEET.....	8474	9087	4800
WELLHEAD PRESSURE, PSIG...	4971	4800	1670
OPEN FLOW, MCFD.....	33250	2250	3000
COMPONENT, MOLE PCT			
METHANE.....	87.6	91.1	79.7
ETHANE.....	5.7	4.5	10.5
PROPANE.....	1.9	1.9	4.6
N-BUTANE.....	0.4	0.4	1.3
ISOBUTANE.....	0.4	0.5	0.6
N-PENTANE.....	0.1	0.1	0.2
ISOPENTANE.....	0.2	0.2	0.6
CYCLOPENTANE.....	0.1	0.1	0.1
HEXANES PLUS.....	0.1	0.2	0.3
NITROGEN.....	0.0	TRACE	1.6
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	0.0	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	3.6	0.9	0.3
HELIUM.....	TRACE	TRACE	0.09
HEATING VALUE*.....	1087	1110	1232

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14767	INDEX SAMPLE 14754	INDEX SAMPLE 14804
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	PALO PINTO	PALO PINTO	PARKER
FIELD.....	PENNINGTON	WILDCAT	ALEDO
WELL NAME.....	T&PKR NO. 1-29	WALTERS NO. 1	WINSTON NO. 2
LOCATION.....	SEC. 1, T&NO SUR. A-694	SEC. 2593, TE&L SUR., A664	NOT GIVEN
OWNER.....	W. L. PENNINGTON	TIPPERARY OIL & GAS CORP.	W. A. MONCRIEF
COMPLETED.....	05/09/75	04/26/75	NOT GIVEN
SAMPLED.....	09/20/76	09/13/76	10/05/76
FORMATION.....	PENN-CONGLOMERATE	PENN-ATOKA	PENN-BIG SALINE
GEOLOGIC PROVINCE CODE...	425	425	420
DEPTH, FEET.....	3436	4944	5500
WELLHEAD PRESSURE, PSIG...	1650	1320	1985
OPEN FLOW, MCFD.....	3500	5200	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	77.8	81.0	76.6
ETHANE.....	11.2	9.5	11.2
PROPANE.....	5.0	4.4	5.8
N-BUTANE.....	1.3	0.8	1.3
ISOBUTANE.....	0.7	0.4	1.0
N-PENTANE.....	0.3	0.1	0.3
ISOPENTANE.....	0.4	0.3	0.4
CYCLOPENTANE.....	0.1	TRACE	TRACE
HEXANES PLUS.....	0.2	0.1	0.2
NITROGEN.....	2.8	2.9	1.5
OXYGEN.....	0.0	0.0	0.1
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.2	0.2	1.5
HELIUM.....	0.10	0.14	0.06
HEATING VALUE*.....	1230	1167	1245

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14805	INDEX SAMPLE 14685	INDEX SAMPLE 14554
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	PARKER	PECOS	POLK
FIELD.....	ALEDO	PUCKETT E	M. B. WOODBINE
WELL NAME.....	WINSTON NO. 1	MITCHELL "E" NO. 1	SOUTHLAND PAPER MILLS NO. 1
LOCATION.....	J. W. JONES SUR., A-2010	SEC. 9, BLK. 102, J. GIBSON	JAMES CUMMINGS SUR. A-647
OWNER.....	W. A. MONCRIEF	PHILLIPS PETROLEUM CO.	BELCO PETROLEUM CORP.
COMPLETED.....	03/08/75	09/09/75	10/01/75
SAMPLED.....	10/05/76	05/28/76	12/23/75
FORMATION.....	PENN-STRAWN	PENN-STRAWN	CRLT-WOODBINE
GEOLOGIC PROVINCE CODE...	420	430	220
DEPTH, FEET.....	1286	11328	12577
WELLHEAD PRESSURE, PSIG...	580	3722	6443
OPEN FLOW, MCFD.....	2800	67500	7526
COMPONENT, MOLE PCT			
METHANE.....	86.8	84.4	89.6
ETHANE.....	5.7	9.2	4.0
PROPANE.....	2.7	3.3	1.6
N-BUTANE.....	0.6	0.7	0.3
ISOBUTANE.....	0.4	0.3	0.4
N-PENTANE.....	0.1	0.1	0.2
ISOPENTANE.....	0.2	0.2	TRACE
CYCLOPENTANE.....	0.0	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	3.1	0.9	0.4
OXYGEN.....	TRACE	TRACE	0.0
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	0.7	3.4
HELIUM.....	0.24	0.03	0.01
HEATING VALUE.....	1103	1157	1058

* CALCULATED GROSS BTU PER CU FT. DRY, AT 60 DEGREES FARENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14634	INDEX SAMPLE 14757	INDEX SAMPLE 14797
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	ROBERTS	ROBERTS	ROBERTS
FIELD.....	MENDOTA NW	RULER	RULER
WELL NAME.....	R.A. FLOWERS NO. 3	JONES "A" NO. 1	MCNORDIE BROTHERS B-1
LOCATION.....	SEC. 4, BS&F SUR.	SEC. 1, BLK. A-2, EL&RR SUR.	SEC. 5, BLK. A-2, EL&RR SUR.
OWNER.....	AMARILLO OIL CO.	AMARILLO OIL CO.	EXXON CO., U.S.A.
COMPLETED.....	03/01/76	09/06/75	07/28/76
SAMPLED.....	04/13/76	09/16/76	09/21/76
FORMATION.....	PERM-GKARITE WASH	PENN-MORROW U	PENN-MORROW
GEOLOGIC PROVINCE CODE...	360	360	360
DEPTH, FEET.....	9596	9632	9663
WELLHEAD PRESSURE, PSIG...	2397	2200	2390
OPEN FLOW, MCFD.....	30000	11000	3150
COMPONENT, MOLE PCT			
METHANE.....	83.0	90.0	89.8
ETHANE.....	9.6	6.4	6.7
PROPANE.....	3.9	1.5	1.4
N-BUTANE.....	0.9	0.2	0.3
ISOBUTANE.....	0.5	0.1	0.0
N-PENTANE.....	0.2	0.0	0.2
ISOPENTANE.....	0.2	0.1	0.1
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	1.1	0.5	0.6
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.5	0.9	1.0
HELIUM.....	0.04	0.06	0.07
HEATING VALUE.....	1183	1085	1094

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14686	INDEX SAMPLE 14571	INDEX SAMPLE 14593
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	ROBERTS	ROBERTS	ROBERTS
FIELD.....	SHREIKY	ST. CLAIR	ST. CLAIR
WELL NAME.....	R. BYRUM NO. 1-36	JONES NO. 1	CHRISTIE-IIPPS A NO. 1
LOCATION.....	SEC. 36, BLK. M-2, H&GN SUR.	SEC. 85, BLK. C, G&M SUR.	SEC. 70, BLK. B-1, H&GN SUR.
OWNER.....	GULF ENERGY & MINERALS CO.	PENNZOIL CO.	ANADARKO PRODUCTION CO.
COMPLETED.....	03/22/76	04/17/75	06/16/75
SAMPLED.....	06/04/76	01/29/76	03/05/76
FORMATION.....	PENN-MOHROW	PERM-GRANITE WASH	PERM-GRANITE WASH
GEOLOGIC PROVINCE CODE.....	360	360	360
DEPTH, FEET.....	10800	10200	9529
WELLHEAD PRESSURE, PSIG.....	3025	2026	2114
OPEN FLOW, MCFD.....	11200	16000	11856
COMPONENT, MOLE PCT			
METHANE.....	92.2	77.7	71.3
ETHANE.....	3.7	12.2	12.7
PROPANE.....	0.8	5.4	6.1
N-BUTANE.....	0.2	1.2	1.6
ISOBUTANE.....	0.1	0.6	0.7
N-PENTANE.....	TRACE	0.2	0.4
ISOPENTANE.....	0.1	0.5	0.0
CYCLOPENTANE.....	TRACE	0.1	TRACE
HEXANES PLUS.....	0.1	0.2	0.1
NITROGEN.....	1.4	1.4	5.4
OXYGEN.....	0.2	0.0	1.2
ARGON.....	TRACE	0.0	0.1
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.1	0.4	0.6
HELIUM.....	0.04	0.05	0.05
HEATING VALUE*.....	1041	1250	1208

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14816	INDEX SAMPLE 14674	INDEX SAMPLE 14794
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	RUSK	SCHLEICHER	SMITH
FIELD.....	JARKELL CREEK	O'HARKOW	OVERTON
WELL NAME.....	ALFORD MARKEY NO. 1	O'HARKOW NO. 1	OVERTON GAS UNIT 2 NO. 1
LOCATION.....	PERRY REESE SUR. A-657	SEC. 68, BLK. H, GH&SA SUR.	E. DANIELS SUR. A-329
OWNER.....	FAIR OIL, LTD.	I. W. LOVELADY	EXXON CO., U.S.A.
COMPLETED.....	12/31/74	03/05/75	12/03/74
SAMPLED.....	NOT GIVEN	05/17/76	10/01/76
FORMATION.....	CRET-TRAVIS PEAK	PENN-CANYON	JURA-HAYNESVILLE
GEOLOGIC PROVINCE CODE...	260	430	260
DEPTH, FEET.....	7458	5056	12034
WELLHEAD PRESSURE, PSIG...	2878	1460	5400
OPEN FLOW, MCFD.....	5600	5150	16000
COMPONENT, MOLE PCT			
METHANE.....	89.7	77.4	96.5
ETHANE.....	3.0	6.0	1.1
PROPANE.....	1.7	3.2	0.2
N-BUTANE.....	0.7	0.8	0.1
ISOBUTANE.....	0.7	0.4	0.1
N-PENTANE.....	0.5	0.2	TRACE
ISOPENTANE.....	0.2	0.3	0.1
CYCLOPENTANE.....	0.2	0.1	TRACE
HEXANES PLUS.....	0.7	0.2	0.1
NITROGEN.....	1.8	11.0	0.4
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.7	0.2	1.4
HELIUM.....	0.03	0.31	0.01
HEATING VALUE.....	1127	1050	1019

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX 199 SAMPLE 14803	INDEX 200 SAMPLE 14709	INDEX 201 SAMPLE 14710
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	SMITH	SUTTON	SUTTON
FIELD.....	OVERTON	MEIRS E	MEIRS E
WELL NAME.....	OVERTON GAS UNIT NO. 1	WALLACE NO. 1	WALLACE NO. 1
LOCATION.....	M. G. HENRIQUEZ A-11 SUR.	SEC. 68, BLK. 7, T&WNG SUR.	SEC. 68, BLK. 7, T&WNG SUR.
OWNER.....	EXXON CO., U.S.A.	TRINIDAD PETROLEUM CORP.	TRINIDAD PETROLEUM CORP.
COMPLETED.....	10/17/74	08/10/74	09/08/74
SAMPLED.....	10/08/76	06/10/76	06/--/76
FORMATION.....	JURA-HAYNESVILLE A-11	PENN-CISCO	PENN-STRAWN
GEOLOGIC PROVINCE CODE...	260	430	430
DEPTH, FEET.....	12012	2850	4100
WELLHEAD PRESSURE, PSIG...	5190	800	600
OPEN FLOW, MCFD.....	7800	3700	1700
COMPONENT, MOLE PCT			
METHANE.....	96.3	87.6	87.9
ETHANE.....	0.9	2.3	2.3
PROPANE.....	0.1	1.0	1.0
N-BUTANE.....	0.0	0.2	0.2
ISOBUTANE.....	0.0	0.1	0.1
N-PENTANE.....	0.0	0.0	0.0
ISOPENTANE.....	0.0	0.1	0.1
CYCLOPENTANE.....	0.0	TRACE	TRACE
HEXANES PLUS.....	0.0	TRACE	TRACE
NITROGEN.....	1.1	7.8	7.5
OXYGEN.....	0.0	0.1	TRACE
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	1.6	0.4	0.3
HELIUM.....	0.01	0.37	0.37
HEATING VALUE*.....	994	969	972

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14875	INDEX SAMPLE 14811	INDEX SAMPLE 14793
STATE.....	TEXAS	TEXAS	TEXAS
COUNTY.....	WHEELER	WHEELER	WHEELER
FIELD.....	FARRIS	WHEELER PAN	WILDCAT
WELL NAME.....	FARRIS-C NO. 1	SANDIFER A NO. 1	LANCASTER NO. 1
LOCATION.....	SEC. 18, BLK. A-4, H&GN SUR.	SEC. 51, BLK. A-8, H&GN SUR.	SEC. 58, BLK. A-4, H&GN SUR.
OWNER.....	PHILLIPS PETROLEUM CO.	PHILLIPS PETROLEUM CO.	AMARILLO OIL CO.
COMPLETED.....	10/28/76	08/21/76	07/27/76
SAMPLED.....	12/28/76	10/19/76	09/--/76
FORMATION.....	DEVU-HUNTON	PENN-GRANITE WASH	PENN-MORROW
GEOLOGIC PROVINCE CODE...	360	360	360
DEPTH, FEET.....	16167	13932	14009
WELLHEAD PRESSURE, PSIG...	5370	5334	9073
OPEN FLOW, MCFD.....	18300	8000	24000
COMPONENT, MOLE PCT			
METHANE.....	95.4	91.6	84.4
ETHANE.....	2.3	4.1	8.6
PROPANE.....	0.5	2.0	3.5
N-BUTANE.....	0.2	0.6	0.9
ISOBUTANE.....	0.1	0.2	0.7
N-PENTANE.....	TRACE	0.1	0.2
ISOPENTANE.....	0.1	0.2	0.2
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	0.2
NITROGEN.....	0.8	0.6	0.7
OXYGEN.....	TRACE	TRACE	0.1
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.4	0.4	0.5
HELIUM.....	0.03	0.02	0.02
HEATING VALUE*.....	1040	1098	1181

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE	205 14684	INDEX SAMPLE	206 14769	INDEX SAMPLE	207 14796
STATE.....	TEXAS		WEST VIRGINIA		WEST VIRGINIA	
COUNTY.....	WINKLER		BOONE		CALHOUN	
FIELD.....	FELMONT		BALD KNUB		MINNORA	
WELL NAME.....	FELMONT		NO. 11920A		DENVER BRANNON NO. 11909	
LOCATION.....	SEC. 19, BLK. 26, PSL SUR.		POND FORK		OTTER QUADRANGLE	
OWNER.....	AMOCO PRODUCTION CO.		CONSOLIDATED GAS SUPPLY CORP		CONSOLIDATED GAS SUPPLY CORP	
COMPLETED.....	05/26/76		09/25/75		08/08/75	
SAMPLED.....	05/26/76		09/17/76		09/--/76	
FORMATION.....	PENN-ATOKA		MISS-WEIR & MAXIMUM		DELVO-	
GEOLOGIC PROVINCE CODE...	430		160		160	
DEPTH, FEET.....	NOT GIVEN		5344		2924	
WELLHEAD PRESSURE, PSIG...	4200		615		630	
OPEN FLOW, MCFD.....	35000		5938		2207	
COMPONENT, MOLE PCT						
METHANE.....	90.6		91.6		65.4	
ETHANE.....	5.3		6.1		17.0	
PROPANE.....	1.8		1.2		9.6	
N-BUTANE.....	0.5		0.2		3.3	
ISOBUTANE.....	0.3		0.2		1.4	
N-PENTANE.....	0.1		0.0		0.8	
ISOPENTANE.....	0.3		0.1		0.8	
CYCLOPENTANE.....	0.1		TRACE		0.1	
HEXANES PLUS.....	0.2		0.1		0.4	
NITROGEN.....	0.5		0.4		1.2	
OXYGEN.....	0.0		0.0		0.1	
ARGON.....	TRACE		TRACE		0.0	
HYDROGEN.....	0.0		0.0		0.0	
HYDROGEN SULFIDE**.....	0.0		0.0		0.0	
CARBON DIOXIDE.....	0.2		TRACE		TRACE	
HELIUM.....	0.01		0.03		0.04	
HEATING VALUE*.....	1117		1091		1467	

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14768	INDEX SAMPLE 14714	INDEX SAMPLE 210 14795
STATE.....	WEST VIRGINIA	WYOMING	WYOMING
COUNTY.....	LOGAN	CAMPBELL	CARBON
FIELD.....	MANN-OCEANA	PORCUPINE	COW CREEK S
WELL NAME.....	NO. 11870	BIRUSALL NO. 34-10	ASHLAND FEDERAL NO. 13-22X
LOCATION.....	BUFFALO CREEK	SEC. 10, T42N, R71W	SEC. 22, T16N, R91W
OWNER.....	CONSOLIDATED GAS SUPPLY CORP	BURLINGTON NORTHERN INC.	EXETER EXPLORATION CO.
COMPLETED.....	12/30/74	05/19/75	07/--/76
SAMPLED.....	09/17/76	06/27/76	09/24/76
FORMATION.....	MISS-BIG LIME & BEREA	CRET-TURNER	CRET-FRONTIER
GEOLOGIC PROVINCE CODE...	160	515	535
DEPTH, FEET.....	4193	9430	7800
WELLHEAD PRESSURE, PSIG...	852	3100	4000
OPEN FLOW, MCFD.....	5938	1813	10000
COMPONENT, MOLE PCT			
METHANE.....	90.1	71.2	96.3
ETHANE.....	6.0	12.4	0.7
PROPANE.....	1.8	7.4	0.3
N-BUTANE.....	0.6	2.7	0.0
ISOBUTANE.....	0.4	1.3	0.0
N-PENTANE.....	0.2	0.8	0.0
ISOPENTANE.....	0.2	1.4	0.0
CYCLOPENTANE.....	0.1	0.3	0.0
HEXANES PLUS.....	0.2	0.9	0.0
NITROGEN.....	0.5	0.7	0.2
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	0.0	TRACE
HYDROGEN.....	TRACE	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	0.9	2.5
HELIUM.....	0.10	0.01	0.01
HEATING VALUE*.....	1132	1421	996

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H2S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14569	INDEX SAMPLE 14689	INDEX SAMPLE 14874
STATE.....	WYOMING	WYOMING	WYOMING
COUNTRY.....	FREMONT	LINCOLN	NIOBRARA
FIELD.....	WILDCAT	WILDCAT	YOUNG WOMAN CREEK
WELL NAME.....	FEDERAL NO. 1-33	WHISKY BUTTE NO. 2	MM FEDERAL NO. 3
LOCATION.....	SEC. 33, T27N, R93W	SEC. 11, T21N, R112W	SEC. 26, T35N, R64W
OWNER.....	MAY PETROLEUM INC.	AMOCO PRODUCTION CO.	SIMASKO PRODUCTION CO.
COMPLETED.....	09/26/75	NOT GIVEN	10/19/76
SAMPLED.....	01/24/76	06/07/76	12/17/76
FORMATION.....	EOCE-FORT UNION	CRET-FRONTIER 2ND	CRET-DAKOTA
GEOLOGIC PROVINCE CODE...	530	535	515
DEPTH, FEET.....	2850	11072	3576
WELLHEAD PRESSURE, PSIG...	1136	5745	1000
OPEN FLOW, MCFD.....	22000	3290	2163
COMPONENT, MOLE PCT			
METHANE.....	98.6	85.4	94.3
ETHANE.....	0.1	9.2	0.5
PROPANE.....	0.1	2.5	0.9
N-BUTANE.....	0.0	0.4	0.3
ISOBUTANE.....	0.0	0.3	0.6
N-PENTANE.....	0.0	0.1	0.1
ISOPENTANE.....	0.0	0.3	0.2
CYCLOPENTANE.....	0.0	0.1	TRACE
HEXANES PLUS.....	0.0	0.2	0.2
NITROGEN.....	0.8	0.8	0.5
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.4	0.5	2.4
HELIUM.....	0.01	0.01	TRACE
HEATING VALUE.....	1003	1149	1041

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX 214 SAMPLE 14787	INDEX 215 SAMPLE 14601	INDEX 216 SAMPLE 14595
STATE.....	WYOMING	WYOMING	WYOMING
COUNTY.....	SUBLETTE	SWEETWATER	SWEETWATER
FIELD.....	BIRCH CREEK	BRADY	BRADY DEEP
WELL NAME.....	BIRCH CREEK UNIT 94	BRADY NO. 200	BRADY NO. 3W
LOCATION.....	SEC. 11, T27N, R113W	NOT GIVEN	NOT GIVEN
OWNER.....	CHEVRON OIL CO.	CHAMPLIN PETROLEUM CO.	CHAMPLIN PETROLEUM CO.
COMPLETED.....	09/28/76	NOT GIVEN	NOT GIVEN
SAMPLED.....	09/27/76	02/26/76	02/26/76
FORMATION.....	CRET-FRONTIER & BEAR RIVER	CRET-DAKOTA	PENN-WEBER
GEOLOGIC PROVINCE CODE...	535	535	535
DEPTH, FEET.....	7779	11400	14400
WELLHEAD PRESSURE, PSIG...	2250	3000	2800
OPEN FLOW, MCFD.....	7000	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	90.7	92.4	57.0
ETHANE.....	5.1	5.2	5.8
PROPANE.....	2.0	0.9	2.3
N-BUTANE.....	0.5	0.2	0.5
ISOBUTANE.....	0.2	0.2	0.5
N-PENTANE.....	0.1	0.0	0.1
ISOPENTANE.....	0.3	0.1	0.2
CYCLOPENTANE.....	0.1	TRACE	TRACE
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	0.7	0.3	6.9
OXYGEN.....	0.0	0.0	TRACE
ARGON.....	TRACE	TRACE	0.1
HYDROGEN.....	0.0	TRACE	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.1	0.6	26.4
HELIUM.....	0.01	0.02	0.15
HEATING VALUE.....	1112	1075	793

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX 217 SAMPLE 14596	INDEX 218 SAMPLE 14597	INDEX 219 SAMPLE 14598
STATE.....	WYOMING	WYOMING	WYOMING
COUNTY.....	SWEETWATER	SWEETWATER	SWEETWATER
FIELD.....	BRADY DEEP	BRADY DEEP	BRADY DEEP
WELL NAME.....	BRADY NO. 9N	BRADY NO. 5N	BRADY NO. 2W
LOCATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
OWNER.....	CHAMPLIN PETROLEUM CO.	CHAMPLIN PETROLEUM CO.	CHAMPLIN PETROLEUM CO.
COMPLETED.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
SAMPLED.....	02/27/76	02/27/76	02/26/76
FORMATION.....	JURA-NUGGET	JURA-NUGGET	PENN-WEBER
GEOLOGIC PROVINCE CODE...	535	535	535
DEPTH, FEET.....	12600	12000	14400
WELLHEAD PRESSURE, PSIG...	1000	1000	2800
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	6.1	6.6	57.3
ETHANE.....	0.6	0.5	6.0
PROPANE.....	2.6	2.8	2.8
N-BUTANE.....	2.5	2.4	0.8
ISOBUTANE.....	1.9	1.9	0.6
N-PENTANE.....	0.9	0.5	0.1
ISOPENTANE.....	1.2	1.6	0.4
CYCLOPENTANE.....	0.1	0.1	TRACE
HEXANES PLUS.....	0.9	0.5	0.2
NITROGEN.....	8.4	8.9	5.3
OXYGEN.....	TRACE	TRACE	0.0
ARGON.....	0.1	0.1	TRACE
HYDROGEN.....	TRACE	TRACE	0.0
HYDROGEN SULFIDE**.....	0.3	0.1	1.5
CARBON DIOXIDE.....	74.2	73.9	24.8
HELIUM.....	0.23	0.25	0.14
HEATING VALUE.....	430	413	849

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 220 14599	INDEX SAMPLE 221 14600	INDEX SAMPLE 222 14602
STATE.....	WYOMING	WYOMING	WYOMING
COUNTY.....	SWEETWATER	SWEETWATER	SWEETWATER
FIELD.....	BRADY DEEP	BRADY DEEP	BRADY DEEP
WELL NAME.....	BRADY NO. 16W	BRADY NO. 13W	BRADY NO. 31N
LOCATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
OWNER.....	CHAMPLIN PETROLEUM CO.	CHAMPLIN PETROLEUM CO.	CHAMPLIN PETROLEUM CO.
COMPLETED.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
SAMPLED.....	02/26/76	02/26/76	02/26/76
FORMATION.....	PENN-WEBER	PENN-WEBER	JURA-NUGGET
GEOLOGIC PROVINCE CODE...	535	535	535
DEPTH, FEET.....	14400	14400	12600
WELLHEAD PRESSURE, PSIG...	2800	2800	1100
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	55.3	57.3	7.8
ETHANE.....	6.2	6.2	0.6
PROPANE.....	2.8	2.8	2.8
N-BUTANE.....	0.8	0.8	2.5
ISOBUTANE.....	0.7	0.6	1.7
N-PENTANE.....	0.2	0.1	0.3
ISOPENTANE.....	0.2	0.4	1.6
CYCLOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	0.1	0.1	0.4
NITROGEN.....	5.2	5.6	12.2
OXYGEN.....	TRACE	TRACE	0.0
ARGON.....	TRACE	TRACE	0.2
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.5	1.1	0.0
CARBON DIOXIDE.....	27.6	24.7	69.6
HELIUM.....	0.15	0.15	0.34
HEATING VALUE*.....	820	845	410

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 223 14603	INDEX SAMPLE 224 14606	INDEX SAMPLE 225 14607
STATE.....	WYOMING	WYOMING	WYOMING
COUNTY.....	SWEETWATER	SWEETWATER	SWEETWATER
FIELD.....	BRADY DEEP	BRADY DEEP	BRADY DEEP
WELL NAME.....	BRADY NO. 11W	BRADY NO. 8N	BRADY NO. 1W
LOCATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
OWNER.....	CHAMPLIN PETROLEUM CO.	CHAMPLIN PETROLEUM CO.	CHAMPLIN PETROLEUM CO.
COMPLETED.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
SAMPLED.....	02/26/76	02/27/76	02/26/76
FORMATION.....	PENN-WEBER	JURA-NUGGET	PENN-WEBER
GEOLOGIC PROVINCE CODE...	535	535	535
DEPTH, FEET.....	14400	12600	14400
WELLHEAD PRESSURE, PSIG...	2800	1000	2800
OPEN FLOW, MCFD.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
C COMPONENT, MOLE PCT			
METHANE.....	54.4	7.6	55.4
ETHANE.....	6.0	0.7	6.2
PROPANE.....	2.9	2.7	2.8
N-BUTANE.....	0.7	2.1	1.0
ISOBUTANE.....	0.8	1.5	0.8
N-PENTANE.....	0.1	0.3	0.3
ISOPENTANE.....	0.3	1.2	0.1
CYCLOPENTANE.....	TRACE	TRACE	TRACE
HEXANES PLUS.....	0.1	0.3	0.2
NITROGEN.....	5.7	10.7	6.0
OXYGEN.....	0.0	0.0	0.1
ARGON.....	TRACE	0.2	0.1
HYDROGEN.....	0.0	TRACE	0.0
HYDROGEN SULFIDE**.....	1.1	0.1	0.9
CARBON DIOXIDE.....	27.5	72.3	25.8
HELIUM.....	0.17	0.27	0.14
HEATING VALUE*.....	814	361	839

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE 14561	INDEX SAMPLE 14627	INDEX SAMPLE 14770
STATE.....	WYOMING	WYOMING	WYOMING
COUNTY.....	SWEETWATER	SWEETWATER	UINTA
FIELD.....	DEADMAN WASH	WILDCAT	KYCKMAN CREEK
WELL NAME.....	CHAMPLIN 195 AMOCO NO. A-1	FEDERAL NO. 1-18	KYCKMAN CREEK UNIT NO. 1
LOCATION.....	SEC. 5, T20N, R101W	SEC. 18, T17N, R94W	SEC. 19, T17N, K118W
OWNER.....	AMOCO PRODUCTION CO.	LADD PETROLEUM CORP.	AMOCO PRODUCTION CO.
COMPLETED.....	05/01/74	10/16/75	NOT GIVEN
SAMPLED.....	01/15/76	05/29/76	09/14/76
FORMATION.....	CRET-FRONTIER	CRET-MESA VERDE	JURA-NUGGET
GEOLOGIC PROVINCE CODE...	535	535	535
DEPTH, FEET.....	7800	10690	7455
WELLHEAD PRESSURE, PSIG...	NOT GIVEN	5052	2200
OPEN FLOW, MCFD.....	NOT GIVEN	1626	NOT GIVEN
COMPONENT, MOLE PCT			
METHANE.....	97.9	73.0	78.2
ETHANE.....	1.0	10.1	11.3
PROPANE.....	0.1	6.1	5.2
N-BUTANE.....	0.0	2.7	1.2
ISOBUTANE.....	0.0	1.9	1.1
N-PENTANE.....	0.0	1.8	0.3
ISOPENTANE.....	0.0	1.5	0.2
CYCLOPENTANE.....	0.0	0.1	TRACE
HEXANES PLUS.....	0.0	0.8	0.2
NITROGEN.....	0.3	0.0	2.4
OXYGEN.....	0.0	TRACE	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.6	0.0	0.0
HELIUM.....	0.01	1.9	TRACE
HEATING VALUE*.....	1012	1419	1239

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 1. - SAMPLES FROM GAS AND OIL WELLS IN THE UNITED STATES

	INDEX SAMPLE	229 14734	
STATE.....	WYOMING		
COUNTY.....	UINTA		
FIELD.....	WILLOCAT		
WELL NAME.....	CHAMPLIN 224 AMOCU A NO. 1		
LOCATION.....	SEC. 19, T17N, R18W		
OWNER.....	AMOCU PRODUCTION CO.		
COMPLETED.....	DRILL STEM TEST		
SAMPLED.....	07/27/76		
FORMATION.....	JURA-NUGGET		
GEOLOGIC PROVINCE CODE...	535		
DEPTH, FEET.....	7450		
WELLHEAD PRESSURE, PSIG...	NOT GIVEN		
OPEN FLOW, MCFD.....	NOT GIVEN		
COMPONENT, MOLE PCT			
METHANE.....	67.5	-----	
ETHANE.....	16.3	-----	
PROPANE.....	9.3	-----	
N-BUTANE.....	2.2	-----	
ISOBUTANE.....	2.0	-----	
N-PENTANE.....	0.4	-----	
ISOPENTANE.....	0.7	-----	
CYCLOPENTANE.....	0.1	-----	
HEXANES PLUS.....	0.3	-----	
NITROGEN.....	1.3	-----	
OXYGEN.....	TRACE	-----	
ARGON.....	TRACE	-----	
HYDROGEN.....	0.0	-----	
HYDROGEN SULFIDE**.....	0.0	-----	
CARBON DIOXIDE.....	0.1	-----	
HELIUM.....	0.01	-----	
HEATING VALUE*.....	1425	-----	

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

	INDEX SAMPLE 14642	INDEX SAMPLE 14643	INDEX SAMPLE 14828
STATE.....	KANSAS	KANSAS	MARYLAND
COUNTY.....	RUSH	RUSH	GARRETT
FIELD.....	INLET GAS	OUTLET GAS	NEGRO MOUNTAIN
LOCATION.....	OTIS KANSAS	OTIS KANSAS	6" WELLHEAD
OWNER.....	KANSAS REFINED HELIUM CO.	KANSAS REFINED HELIUM CO.	COLUMBIA GAS TRANSMISSION
SAMPLED.....	04/23/76	04/23/76	10/22/76
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
GEOLOGIC PROVINCE CODE...	385	385	160
PRESSURE, PSIG.....	NOT GIVEN	NOT GIVEN	2200
FLOW, MCFO.....	NOT GIVEN	NOT GIVEN	200
COMPONENT, MOLE PCT			
METHANE.....	75.0	83.5	98.0
ETHANE.....	4.1	4.6	1.3
PROPANE.....	1.4	1.7	TRACE
N-BUTANE.....	0.4	0.4	0.0
ISOBUTANE.....	0.3	0.2	0.0
N-PENTANE.....	0.2	0.0	0.0
ISOPENTANE.....	0.1	0.0	0.0
CYCLOPENTANE.....	0.1	0.0	0.0
HEXANES PLUS.....	0.1	0.0	0.0
NITROGEN.....	15.7	9.5	0.5
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.1	0.1	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	0.0	0.0	0.2
HELIUM.....	2.60	0.05	0.04
HEATING VALUE*.....	915	993	1016

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

	INDEX SAMPLE 14829	INDEX SAMPLE 14832	INDEX SAMPLE 14831
STATE.....	NEW YORK	OHIO	OHIO
COUNTY.....	STEUBEN	FAIRFIELD	HOLMES
FIELD.....	THOMAS CORNERS	BUCKEYE LAKE AREA	HOLMES COUNTY GAS
LOCATION.....	8 IN AT CAMEKON	G LINE-8IN. SUCTION	8 IN. DISCHARGE
OWNER.....	COLUMBIA GAS TRANSMISSION	COLUMBIA GAS TRANSMISSION	COLUMBIA GAS TRANSMISSION
SAMPLED.....	10/26/76	10/29/76	10/28/76
FORMATION.....	NOT GIVEN	NOT GIVEN	SILU-CLINTON
GEOLOGIC PROVINCE CODE...	160	160	160
PRESSURE, PSIG.....	660	17	190
FLOW, MCFD.....	3000	1200	7000
COMPONENT, MOLE PCT			
METHANE.....	93.0	90.8	83.9
ETHANE.....	5.6	3.9	6.6
PROPANE.....	0.6	1.0	2.3
N-BUTANE.....	0.1	0.4	0.6
ISOBUTANE.....	TRACE	0.2	0.3
N-PENTANE.....	TRACE	0.2	0.2
ISOPENTANE.....	0.0	TRACE	0.1
CYCLOPENTANE.....	0.0	0.1	TRACE
HEXANES PLUS.....	0.1	0.3	0.1
NITROGEN.....	0.4	2.6	5.5
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	0.4	0.1
HELIUM.....	0.03	0.08	0.14
HEATING VALUE*.....	1067	1064	1076

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

	INDEX SAMPLE 14830	INDEX SAMPLE 14833	INDEX SAMPLE 14842
STATE.....	OHIO	OHIO	OHIO
COUNTRY.....	MAHONING	MEIGS	TUSCARAWAS
FIELD.....	TRUMBULL	GALLIA, MEIGS, WASHINGTON	GUERNSEY
LOCATION.....	10 IN FV-341	10 IN. DISCHARGE	16 IN. SUCTION
OWNER.....	COLUMBIA GAS TRANSMISSION	COLUMBIA GAS TRANSMISSION	EAST OHIO GAS CO.
SAMPLED.....	10/27/76	10/29/76	10/28/76
FORMATION.....	SILU-CLINTON	MISS-BEKEA	SILU-CLINTON
GEOLOGIC PROVINCE CODE...	160	160	160
PRESSURE, PSIG.....	170	180	230
FLOW, MCFD.....	3000	4000	50000
COMPONENT, MOLE PCT			
METHANE.....	91.5	81.1	86.7
ETHANE.....	4.1	7.7	5.9
PROPANE.....	1.1	4.5	1.7
N-BUTANE.....	0.3	1.2	0.5
ISOBUTANE.....	0.1	0.4	0.3
N-PENTANE.....	TRACE	0.2	0.2
ISOPENTANE.....	0.1	0.2	0.1
CYCLOPENTANE.....	TRACE	0.1	TRACE
HEXANES PLUS.....	0.1	0.1	0.1
NITROGEN.....	2.6	4.5	4.4
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	TRACE	TRACE
HELIUM.....	0.09	0.18	0.13
HEATING VALUE.....	1052	1156	1073

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

	INDEX SAMPLE 10 14834	INDEX SAMPLE 11 14841	INDEX SAMPLE 12 14827
STATE.....	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA
COUNTY.....	ARMSTRONG	ARMSTRONG	GREENE
FIELD.....	INDIANA, ARMSTRONG & CLARION	SAGAMORE, COCHRAN MILLS ETAL	WAYNESBURG
LOCATION.....	20 IN. DISCHARGE	8 IN. DISCHARGE	10 IN. AT METER STATION
OWNER.....	PEOPLES NATURAL GAS CO.	EQUITABLE GAS CO.	COLUMBIA GAS TRANSMISSION
SAMPLED.....	10/25/76	10/25/76	10/22/76
FORMATION.....	DEVO-BRADFORD	NOT GIVEN	NOT GIVEN
GEOLOGIC PROVINCE CODE...	160	160	160
PRESSURE, PSIG.....	252	34	15
FLOW, MCFD.....	25000	6000	9
COMPONENT, MOLE PCT			
METHANE.....	95.1	94.0	86.8
ETHANE.....	3.2	4.0	6.8
PROPANE.....	0.6	0.8	2.3
N-BUTANE.....	0.1	0.2	0.7
ISOBUTANE.....	0.1	0.1	0.4
N-PENTANE.....	TRACE	0.1	0.3
ISOPENTANE.....	TRACE	TRACE	0.2
CYCLOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	0.1	0.1	0.4
NITROGEN.....	0.7	0.6	1.9
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	TRACE
HYDROGEN.....	0.0	0.0	TRACE
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	TRACE	0.1
HELIUM.....	0.08	0.09	0.14
HEATING VALUE.....	1048	1064	1143

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

	INDEX SAMPLE 14844	INDEX SAMPLE 14836	INDEX SAMPLE 14837
STATE.....	PENNSYLVANIA	PENNSYLVANIA	WEST VIRGINIA
COUNTY.....	INDIANA	WASHINGTON	BRAXTON
FIELD.....	INDIANA & JEFFERSON COUNTY	BENTLEYVILLE & COLVIN	CENTRAL WEST VIRGINIA GAS
LOCATION.....	8 IN. DISCHARGE	8 IN. DISCHARGE	12 IN. DISCHARGE
OWNER.....	CONSOLIDATED GAS SUPPLY CORP	PEOPLES NATURAL GAS CO.	EQUITABLE GAS CO.
SAMPLED.....	10/25/76	10/27/76	10/21/76
FORMATION.....	NOT GIVEN	DEVO-GANTZ & HAYARD	NOT GIVEN
GEOLOGIC PROVINCE CODE...	160	160	160
PRESSURE, PSIG.....	675	38	44
FLOW, MCFD.....	17000	1000	14000
COMPONENT, MOLE PCT			
METHANE.....	95.7	91.6	83.8
ETHANE.....	3.0	4.6	9.4
PROPANE.....	0.4	1.4	3.5
N-BUTANE.....	0.1	0.4	0.9
ISOBUTANE.....	0.1	0.3	0.5
N-PENTANE.....	TRACE	0.2	0.3
ISOPENTANE.....	0.0	0.0	0.1
CYCLOPENTANE.....	TRACE	0.1	0.1
HEXANES PLUS.....	0.1	0.3	0.3
NITROGEN.....	0.4	0.9	1.1
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	0.0	0.0
HYDROGEN.....	TRACE	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	TRACE	TRACE
HELIUM.....	0.07	0.08	0.08
HEATING VALUE.....	1045	1098	1192

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

	INDEX SAMPLE 14838	INDEX SAMPLE 14840	INDEX SAMPLE 14825
STATE.....	WEST VIRGINIA	WEST VIRGINIA	WEST VIRGINIA
COUNTY.....	BRAXTON	DODDRIIDGE	KANAWHA
FIELD.....	CENTRAL WEST VIRGINIA GAS	KITCHIE, DODDRIIDGE CO.	CENTRAL WEST VIRGINIA
LOCATION.....	12 IN. PLANT INLET	WEST UNION COMPRESSOR STA.	12 IN. DISCHARGE
OWNER.....	EQUITABLE GAS CO.	EQUITABLE GAS CO.	COLUMBIA GAS TRANSMISSION
SAMPLED.....	10/21/76	10/21/76	10/20/76
FORMATION.....	NOT GIVEN	NOT GIVEN	NOT GIVEN
GEOLOGIC PROVINCE CODE...	160	160	160
PRESSURE, PSIG.....	48	40	300
FLOW, MCFD.....	14000	12000	30000
COMPONENT, MOLE PCT			
METHANE.....	84.7	89.7	81.7
ETHANE.....	8.9	6.0	10.0
PROPANE.....	3.2	1.9	4.3
N-BUTANE.....	0.8	0.5	1.3
ISOBUTANE.....	0.5	0.3	0.7
N-PENTANE.....	0.2	0.2	0.3
ISOPENTANE.....	0.2	0.1	0.4
CYCLOPENTANE.....	TRACE	TRACE	0.1
HEXANES PLUS.....	0.2	0.2	0.3
NITROGEN.....	1.2	0.8	0.9
OXYGEN.....	0.0	0.0	0.0
ARGON.....	TRACE	TRACE	0.0
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	0.2	0.1
HELIUM.....	0.11	0.06	0.06
HEATING VALUE*.....	1172	1115	1235

* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

TABLE 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

	INDEX SAMPLE 19 14843	INDEX SAMPLE 20 14839	INDEX SAMPLE 21 14826
STATE.....	WEST VIRGINIA	WEST VIRGINIA	WEST VIRGINIA
COUNTY.....	KANAWHA	LEWIS	LEWIS
FIELD.....	CENTRAL WEST VIRGINIA		LEWIS, UPSHUR & BARBOUR CO.
LOCATION.....	12 IN. DISCHARGE	12 IN. DISCHARGE	10 IN. DISCHARGE
OWNER.....	CONSOLIDATED GAS SUPPLY CORP	EQUITABLE GAS CO.	COLUMBIA GAS TRANSMISSION
SAMPLED.....	10/20/76	10/21/76	10/21/76
FORMATION.....	NOT GIVEN	NOT GIVEN	DEVON-BENSON
GEOLOGIC PROVINCE CODE...	160	160	160
PRESSURE, PSIG.....	250	240	180
FLOW, MCFD.....	3400	10000	5100
COMPONENT, MOLE PCT			
METHANE.....	83.2	86.9	89.4
ETHANE.....	9.9	7.9	6.9
PROPANE.....	3.7	2.6	1.8
N-BUTANE.....	1.0	0.6	0.4
ISOBUTANE.....	0.6	0.4	0.2
N-PENTANE.....	0.3	0.2	0.2
ISOPENTANE.....	0.2	0.2	0.1
CYCLOPENTANE.....	0.1	TRACE	TRACE
HEXANES PLUS.....	0.3	0.2	0.2
NITROGEN.....	0.7	1.0	0.7
OXYGEN.....	0.0	0.0	0.0
ARGON.....	0.0	TRACE	TRACE
HYDROGEN.....	0.0	0.0	0.0
HYDROGEN SULFIDE**.....	0.0	0.0	0.0
CARBON DIOXIDE.....	TRACE	TRACE	TRACE
HELIUM.....	0.04	0.08	0.06
HEATING VALUE*.....	1211	1150	1119

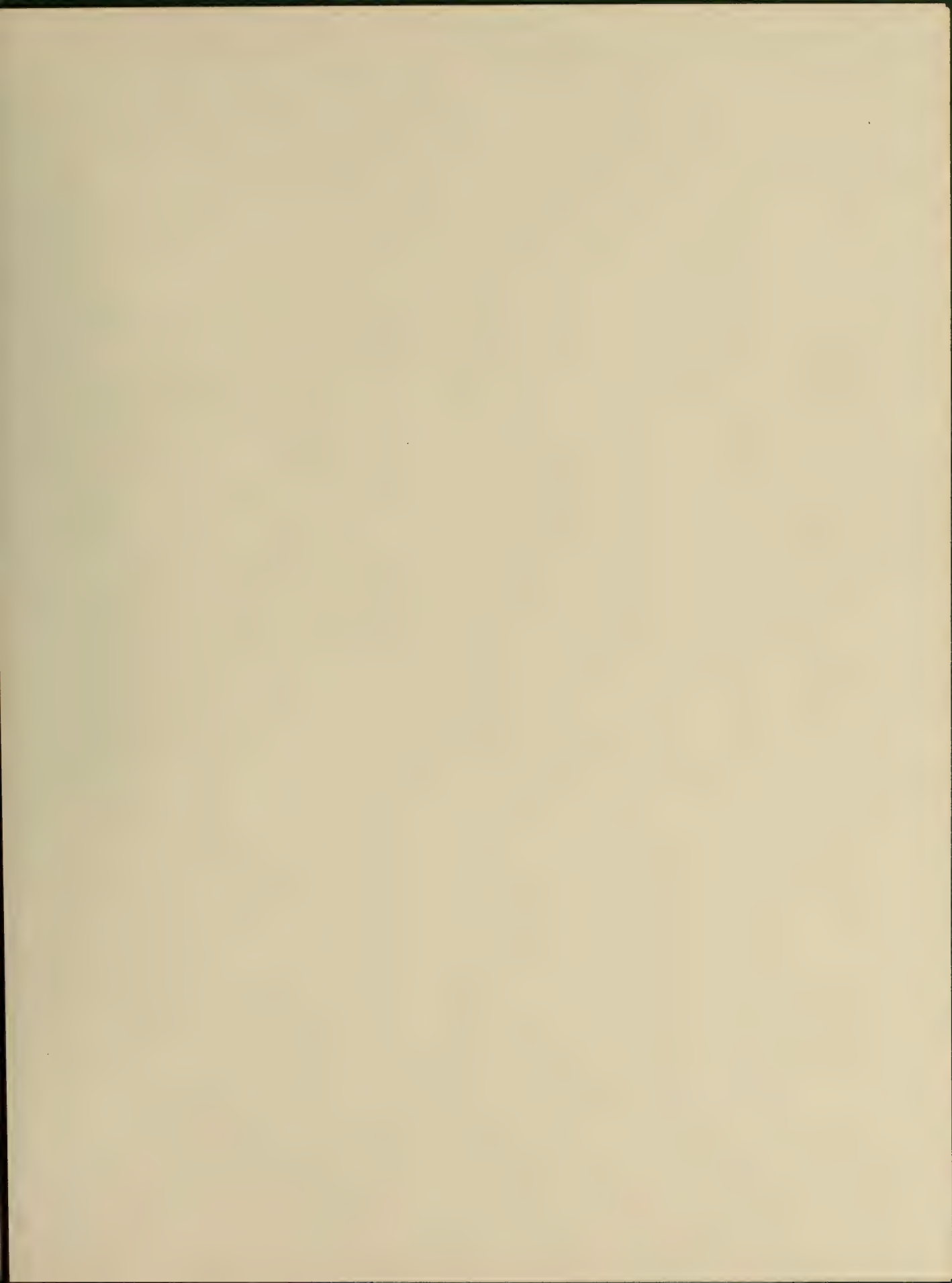
* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY
 ** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

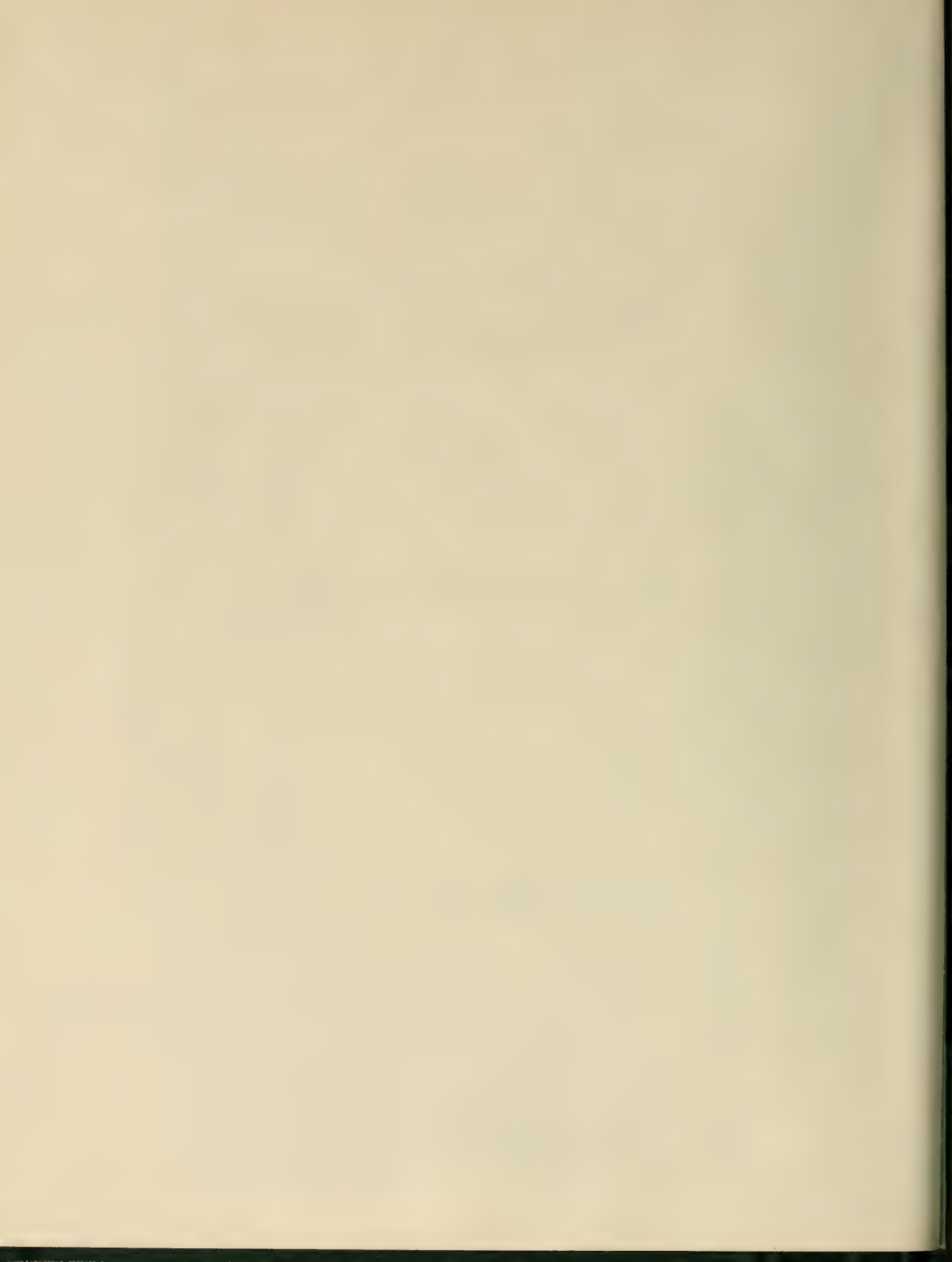
TABLE 2. - SAMPLES FROM PIPELINES IN THE UNITED STATES

	INDEX SAMPLE 14824	INDEX SAMPLE 14823
STATE.....	WEST VIRGINIA	WEST VIRGINIA
COUNTY.....	SUMMERS	WAYNE
FIELD.....	KENTUCKY, VIRGINIA & W. VIRGINIA	KENTUCKY E. & WEST VIRGINIA
LOCATION.....	20 IN. SUCTION	24 IN. INLET GAS
OWNER.....	COLUMBIA GAS TRANSMISSION	COLUMBIA GAS TRANSMISSION
SAMPLED.....	10/20/76	10/19/76
FORMATION.....	NOT GIVEN	NOT GIVEN
GEOLOGIC PROVINCE CODE...	160	160
PRESSURE, PSIG.....	210	325
FLOW, MCFD.....	90000	125000
COMPONENT, MOLE PCT		
METHANE.....	94.8	79.9
ETHANE.....	3.6	12.4
PROPANE.....	0.6	4.7
N-BUTANE.....	0.2	1.0
ISOBUTANE.....	0.1	0.3
N-PENTANE.....	0.0	0.2
ISOPENTANE.....	0.1	0.2
CYCLOPENTANE.....	TRACE	TRACE
HEXANES PLUS.....	TRACE	0.1
NITROGEN.....	0.6	1.0
OXYGEN.....	0.0	0.0
ARGON.....	TRACE	TRACE
HYDROGEN.....	TRACE	0.1
HYDROGEN SULFIDE**.....	0.0	0.0
CARBON DIOXIDE.....	TRACE	0.1
HELIUM.....	0.06	0.05
HEATING VALUE*.....	1055	1220

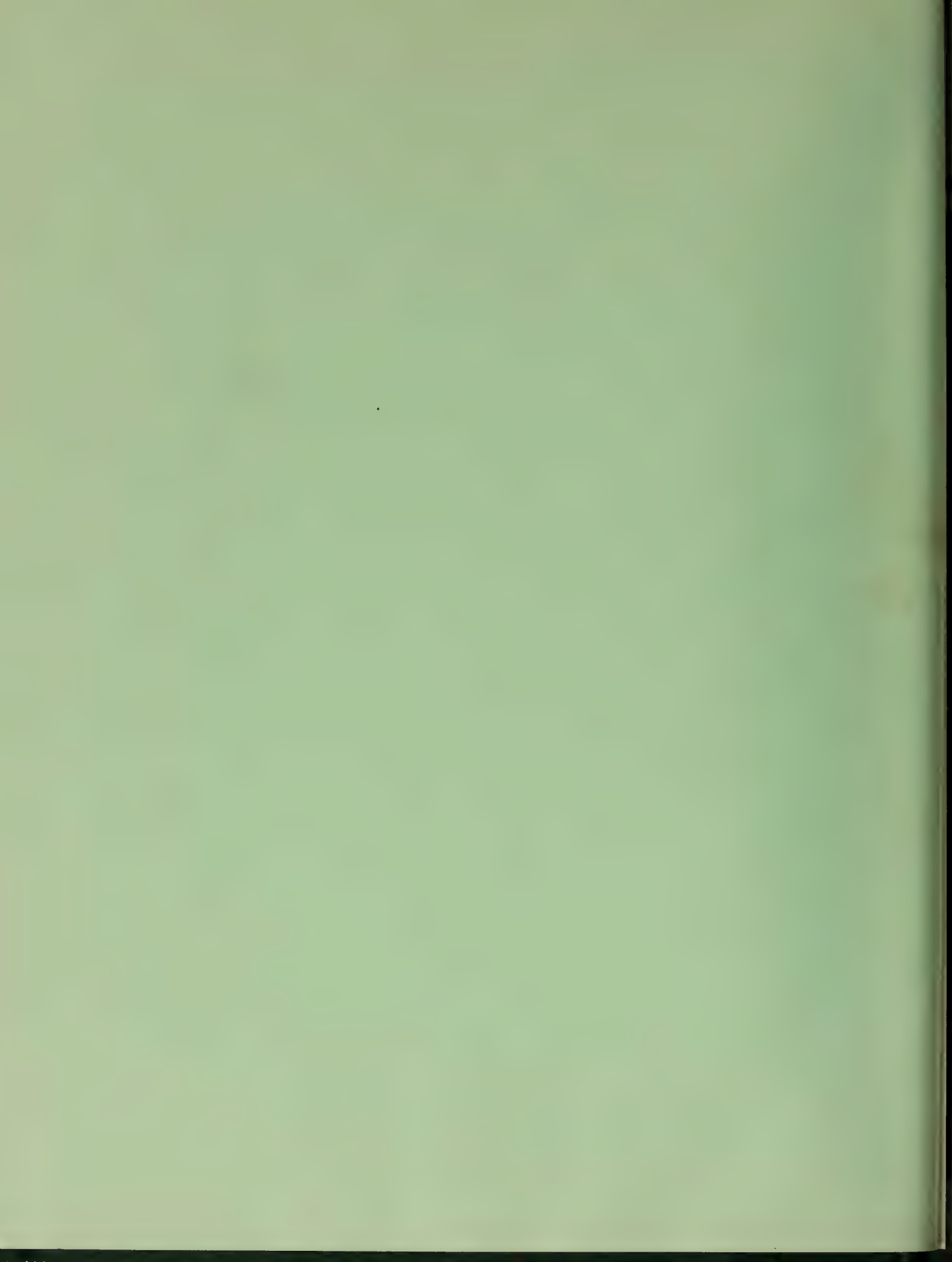
* CALCULATED GROSS BTU PER CU FT, DRY, AT 60 DEGREES FAHRENHEIT AND 30 INCHES OF MERCURY

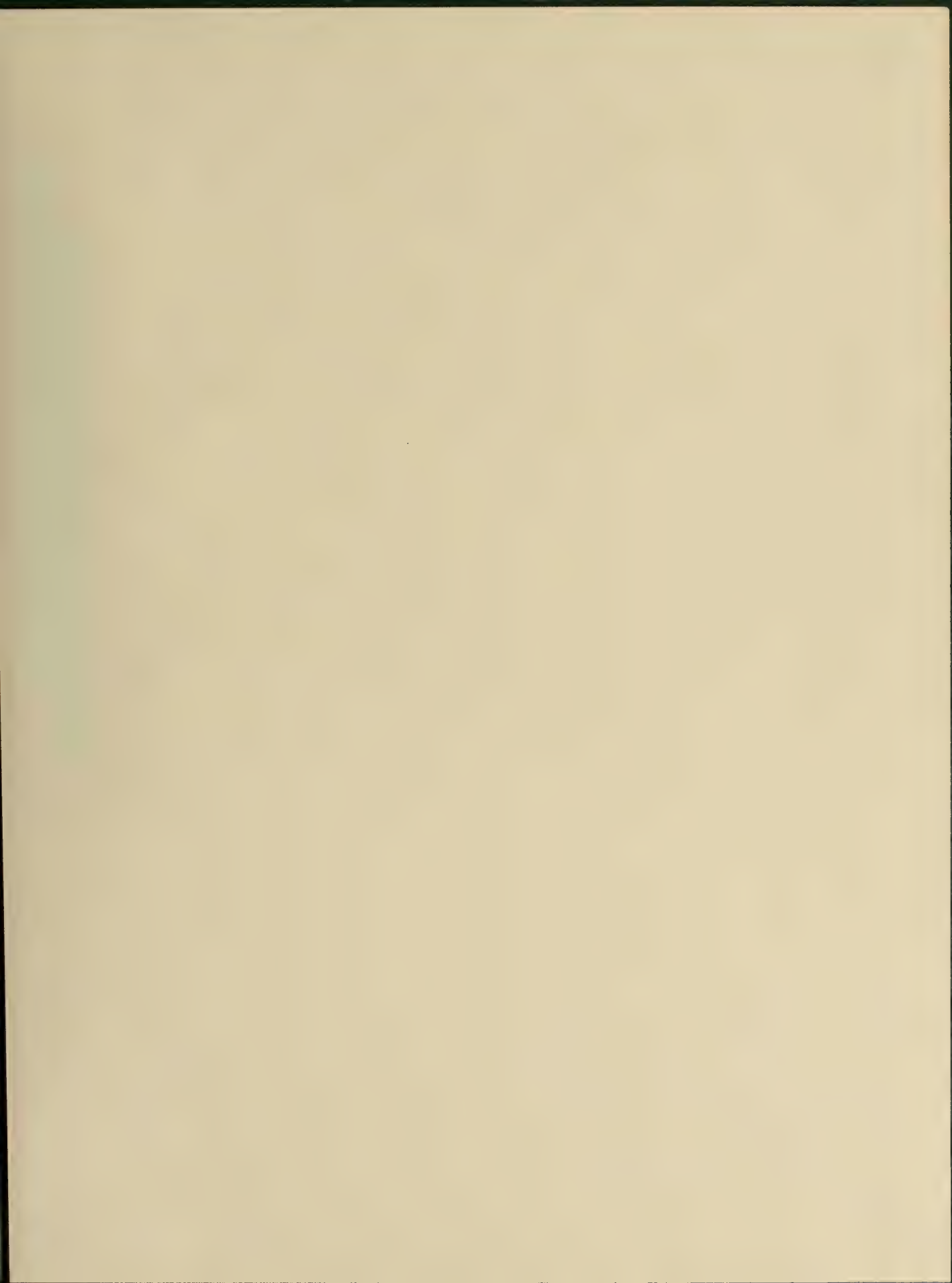
** DUE TO THE ABSORPTION OF H₂S DURING SAMPLING, THE REPORTED RESULTS MAY NOT BE RELIABLE

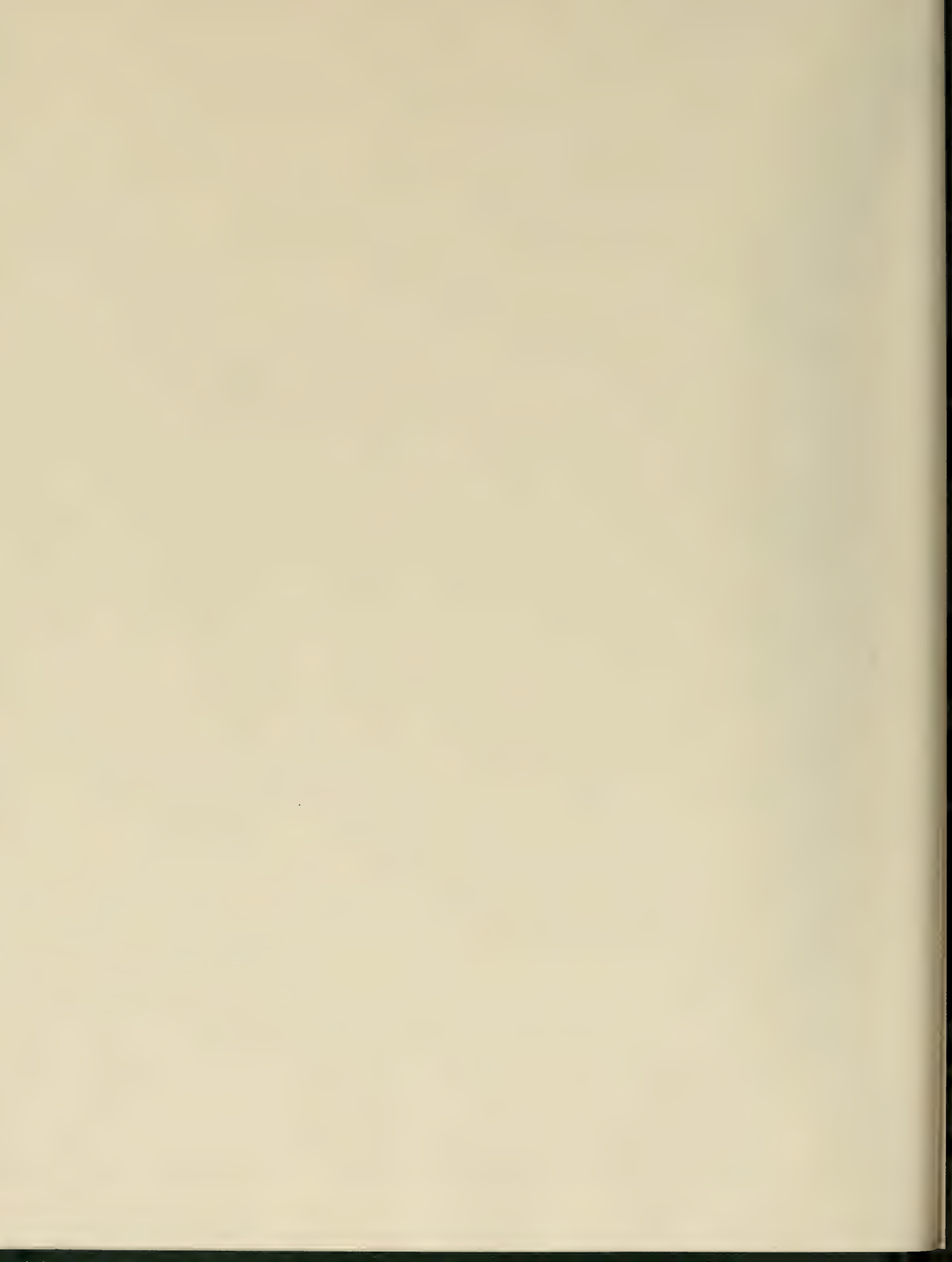


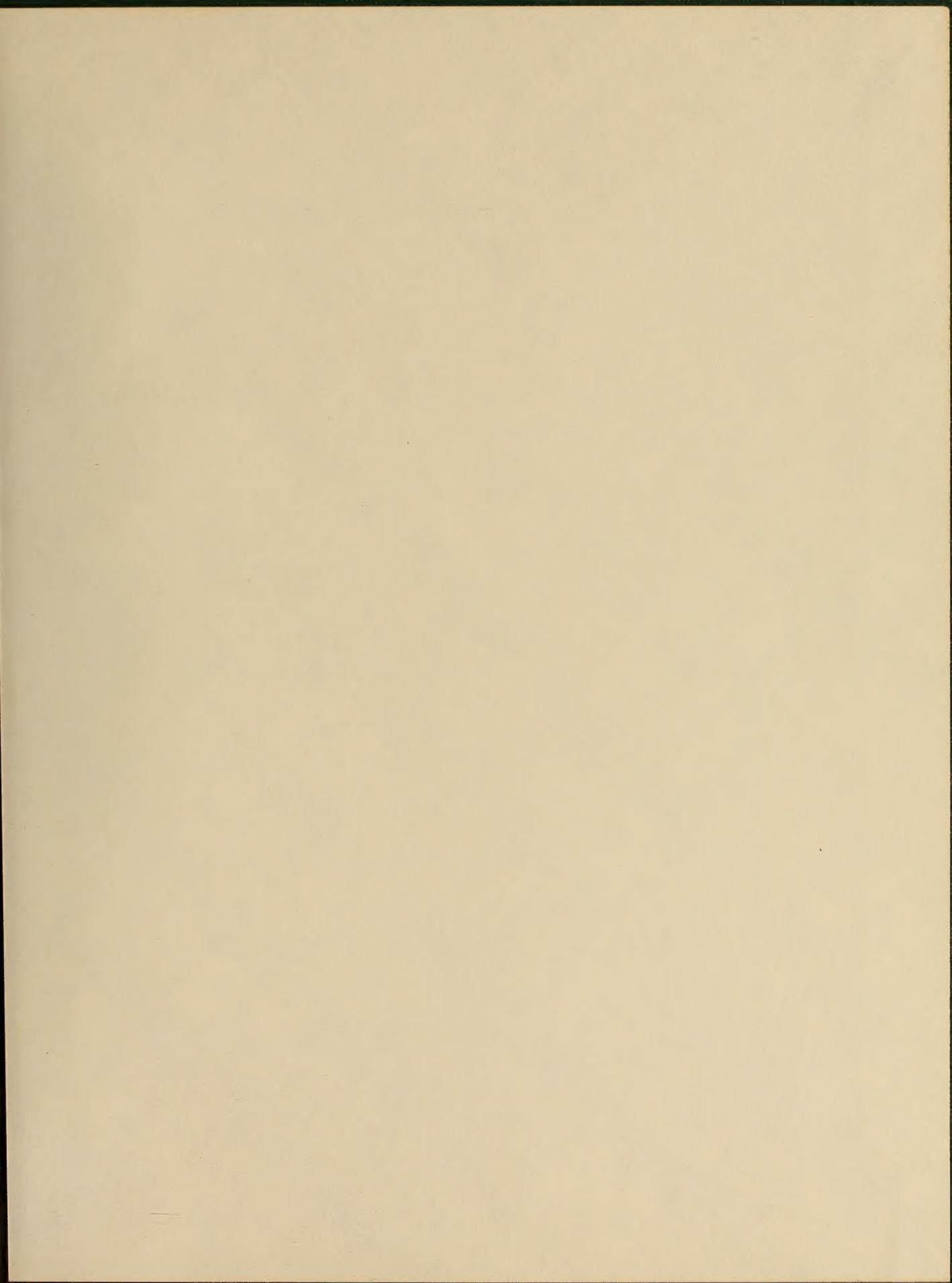
















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